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BIENNIAL REPORT

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UNIVERSITY OF ILLINOIS

OF THE

BOARD OF DIRECTORS

OF THE

AGRICULTURAL AND MECHANICAL  
COLLEGE OF TEXAS

FOR THE FISCAL YEARS 1905-1906.



AUSTIN:  
VON BOECKMANN-JONES CO., PRINTERS.  
1907.



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# AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS.

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## BIENNIAL REPORT OF THE BOARD OF DIRECTORS.

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*Hon. S. W. T. Lanham, Governor of Texas.*

SIR: We herewith present the biennial report of the Agricultural and Mechanical College of Texas for the fiscal years 1905-1906.

A detailed statement of the work and needs of the College will be found within the reports of the several heads of departments, and a general summary of these reports is embodied in the report of the President.

Under our charge, as your Board of Directors, the Institution has made great progress; greater than ever before in its history. The last session has been particularly successful. The average annual matriculation for the thirty years during the existence of the College has been 292 students. This session the matriculation has reached 515, an increase of about 25 per cent over the average for the immediate five preceding years. Measured by the work accomplished rather than by numbers, it will be found that the result is equally gratifying. New departments have been added and the efficiency of all departments increased by the addition of laboratory and shop equipment and increased teaching force. The moral tone of the students has been improved, and discipline maintained upon the elevated principles of student honor and self-control, rather than under strict military surveillance.

Knowledge concerning the work of the Institution and its usefulness to the State has been much more widely disseminated, and demand from the youth of the State for an opportunity to receive an education here is now far beyond the capacity of the College for accommodations. The aid given by the Faculty and Station Staff to the farmers of the State in the practical and industrial problems constantly confronting them, has greatly popularized the Institution. This work has been done through Farmers' Institutes; visits of College and Station officers to investigate and aid in the solution of emergency problems in agriculture, and by means of correspondence. The work therefore of an A. & M. College man, even when not connected with the Experiment Station work, is not to be measured alone by the number of hours of instruction. The Faculty has been strengthened from time to time until now it is creditable alike to the Institution and to the State. The complete harmony and faithfulness with which they have conducted the affairs of the College is highly commendable.

In the matter of expenditures the President and your Board have confined themselves strictly to the appropriation made by the last Legislature, and have been guided by judicious economy in the distribution of the available funds. It is true that these funds have not been suffi-

cient to meet the demands of the people of the State, but, as stated above, most gratifying progress has been made in this direction.

*Condition of the Physical Property.*—The Twenty-ninth Legislature appropriated a repair fund of \$5000 for each of the two years, and a most satisfactory expenditure has been made of this in much needed repairs. Buildings have been repainted, the iron fence in front of the campus has also been painted, and much interior work that was badly needed has been completed. This interior work has consisted of new floors and stairs where required, and of new plastering. Better water connections from cisterns to buildings have been provided in order that our drinking water might be pure and safe for use. The standpipe has been repaired and repainted twice. Better drainage from the walls has been provided for buildings which seemed most in need of it. So that, upon the whole, the physical condition of the property at the College has been put in far better condition by these much needed repairs. Some of the property, however, is not yet in a satisfactory condition; this is notably the case with one of the barns, while four of the old brick residences, built when the College was first established, are in such condition, on account of the inferior brick used in construction, as to render beneficial repair almost, if not entirely, impracticable. It is true that so long as the buildings are occupied some repairs are essential for comfort and decency, and yet they ought to be condemned and replaced with new buildings.

*Additions to the Physical Property.*—Since our last report to you, four important additions have been made. The roads running through the campus or grounds have in part been graveled, improving not only the appearance of the grounds, but giving clean, neat streets that were previously at times almost impassable for loaded wagons. As a supplement to this work, the walks have also been repaired. The second important improvement has been the erection of a brick warehouse, for which \$5000 was appropriated by the last Legislature. A railway spur has been built from the tracks of the I. & G. N. road, through the grounds past the warehouse, to the power house and mechanical shops, making it possible to receive freight in car lots to either of these places. The fourth important addition has been the construction of a small working laboratory for the Department of Physics and Electrical Engineering. Minor additions have been made, such as the purchase of the somewhat large amount of dormitory furniture on account of the increased number of students, the addition of tents for the overflow from the barracks for the accommodation of these students; additional section room and laboratory equipment, mention in detail of which will be found in the Reports of Heads of Departments. A wagonette and team have been provided for the accommodation of visitors. The condition of the farm dairy herd has been greatly improved.

*Co-operative Work With the U. S. Department of Agriculture.*—The Department does a great amount of work in this State entirely independently of the College. This work has been mainly in the nature of demonstration farms, of which some 150 are supported in this State by the National Government. But the Department maintains independently of these farms, two important lines of work here at the College and in conjunction with it. One of these branches of work is under the imme-

diate care of the Bureau of Plant Industry, and engaged mainly in the improvement of the cotton plant, and the other under the immediate management of the Bureau of Entomology, engaged in the investigation of insect crop pests and the remedies thereof. The work along both of these lines has proven highly beneficial and satisfactory. Great and permanent results, benefiting every agricultural section of the State, will accrue from the work done by these men sent to our aid by the Department at Washington. A more detailed statement of the work accomplished by Mr. Bennett, who is the cotton expert, will be found in the President's report, and Prof. Conradi includes in his report a statement of the work of Mr. Sanborn, the specialist in Economic Entomology.

*Farmers' Institutes.*—The last Legislature failed to make an appropriation for Farmers' Institutes after the system had been tried for two years with satisfactory results, although the appropriation made for this purpose by the Twenty-eighth Legislature was not sufficient to meet the requirements of a State so large as ours. But it was a good beginning. There is a constant and growing demand, not only in this State, but in all the leading agricultural States, for an increased number of men to go before the farmers and tell them what has been done by the Agricultural Colleges and Experiment Stations in agricultural investigation. It is not sufficient that science should solve problems for the farmers and describe in bulletins the solution of these agricultural problems, advocating there new methods, and showing how greater farm economy will bring better financial returns. This scientific work done in aid of agriculture must be personally presented and explained until the farmer thoroughly understands that it is feasible and practicable. So great is the feeling for the necessity of this kind of work in some States, that President Hardy, of the Mississippi A. & M. College, said in an address before the recent meeting of the Association of Agricultural Colleges and Experiment Stations, in substance: "I feel that if our Station could now stop for ten years its work of investigation in agricultural lines, and divert the money appropriated for this purpose to the work of disseminating and exploiting the facts already obtained, it would result in the greatest possible benefit to the agricultural interests of our State." Texas, with her wide domain, much of it practically untried, can well afford to send among the farmers specialists in the various agricultural branches, and by addresses and personal contact, teach them the great principles and methods which have been unfolded and found practicable by the Experiment Stations of our country. Not that investigation in this State should cease, but that it should be applied to new sections of our State until our various resources are proven and the knowledge disseminated until the greatest economic returns shall have been achieved. Feeling the great importance of work which will bring the scientist and the farmer into closer contact, to their mutual benefit, your Board endeavored to carry on the work of Farmers' Institutes by co-operation with the United States Department of Agriculture, but the funds available were so small as to well-nigh prohibit the success of the undertaking, and at the end of a year the work had to be discontinued. Mr. J. W. Carson, now Vice-Director of the Experiment



Stations, was Superintendent of Farmers' Institutes, and attention is invited to his report.

*Needs of the College.*—We present at the close of this report a statement of what we deem to be the most urgent needs of the Institution. There are many things not included in this summary that would be of inestimable benefit to the growth and development of the College, and in many instances the amounts asked for are below the sums needed, but we have selected only the most urgent, and only for such sums as we believe the State can well afford to supply. The proper support of a State Institution devoting all of its energies to Industrial Education is an investment of the most economic kind on the part of the State, and is in no sense a donation.

It is not necessary to review the items asked for where such amounts are included under the heading of Regular Appropriations, except when these amounts are in excess of the sums allowed two years ago; for it is not conceivable that the State will take any backward step in the maintenance of its most popular Institution. *For maintenance*, an increase of \$10,000 a year is requested. This is made necessary by the large increase of students, requiring additional instructors, and by the desire to establish a new department, that of Metallurgy and Mining Engineering.

*Care of Roads and Grounds.*—Our campus is so large and the difficulty of getting trees to grow, so great, that constant effort is required to keep it in proper condition. The trees and shrubbery must be carefully cultivated during our summer drouth in order to keep them from dying. To do the necessary cultivation and keep the walks in proper repair requires the work of three men and one team. Two thousand dollars annually is asked for this purpose.

*Student Labor Fund.*—An increase of \$2500 is asked for the student labor fund in order that greater provision may be offered for the constantly increasing number of poor young men unable to pay their way through College without work of some kind. Many boys are turned away from the College every year because labor can not be provided for them. It is true that such labor is not economical; but it is also true that young men willing to work for an education, as a rule, make the most desirable students.

#### SPECIAL APPROPRIATIONS.

*Equipment.*—Under the heading of "Buildings" we are asking for an appropriation of \$75,000 for an Engineering Building, the necessity for which will be shown later. Three departments are to be quartered in this building or buildings, and it is important that proper laboratory equipment be supplied to each of these departments. Technological education is far more expensive, both in material and in teaching force, than is any other kind of college or university training. Applied science, especially in Electrical Engineering and Physics, is developing so rapidly that the appliances of one year are displaced by the inventions of the next; new purchases must constantly occur. Most of the farm machinery now on hand has been generously loaned by the manufacturers; but such borrowed material is of course subject to a recall at any

time, and frequently the most desirable types can not be thus obtained. One of the greatest improvements made in modern agricultural practice is the increased use of labor-saving machinery. Agriculture is thus constantly indebted to mechanics, and the obligation can never be entirely paid until farm machinery and its use shall have become perfect. How important it is then that our young agriculturists, upon whom the State must ultimately depend for its permanent prosperity, should have training in farm mechanics and be thoroughly familiar with the latest and the best of farm machinery. Mr. James J. Hill in his recent address upon the "Future of American Agriculture" well characterized the soil as "the one unfailing national resource." "The sole asset that does not perish." How great the necessity then that Texas with millions of acres of unbroken sod, and many millions more of slovenly cultivated acres, should protect the heritage that properly belongs to her own sons by providing adequate facilities for their education along agricultural lines. For instruction in Literature and the Liberal Arts, as well as in the ordinary professions, a teacher and a library are the chief things of expense. But in Technological and Industrial education adequate apparatus is absolutely essential for satisfactory results. The amount asked for is a conservative estimate of what will be needed for the next two years.

*Steam Heating Plant.*—One of the heavy items of running expenses ever since the College started has been that of fuel, but with the growing difficulty of obtaining wood, and the uncertainty of freight shipments, the fuel question has become a menace to the comfort and health of the boys. Not only this, heating by stoves is a more expensive system than that by steam or hot water. The amount asked for is an estimate carefully prepared by a competent sanitary engineer.

*General Experiment Fund.*—The United States Department of Agriculture is provided by Congress with a large annual appropriation to conduct experiments and establish demonstration farms in the various States of the Union. This is a flexible fund that can be used in aid of farmers in any particular district of a State where the conditions may demand it. As the law now stands, we can not use any part of the funds belonging to the existing Experiment Stations, for purposes of this kind. Take as an illustration the disease of "cotton root rot," familiarly known as "cotton dying in spots." It is now only second to the boll weevil in its destructive effect upon the cotton crop of the State. It is desirable to combat this in several different localities of the State at the same time; but without some such fund as is here asked for, it is impossible to do anything.

*Roads.*—We need very much an additional amount for the improvement of our roads within the campus. The amount asked for from the Thirtieth Legislature will not be sufficient to put all the streets in proper condition, but will meet the requirements for the most public streets, and we shall look to subsequent Legislatures for additional amounts.

*Buildings.*—For several years past in our biennial reports we have emphasized the necessity of an Engineering Building. The College has now grown in numbers until such a building is a necessity if we are to make further advancement. It is even now an impossibility to

give that instruction which a student has a right to demand, for the want of adequate space properly arranged. This has for a long time been true in the Departments of Civil Engineering and of Architectural Engineering, and now is more emphatically true of the Department of Electrical Engineering owing to the rapid growth of this department during the last two years. In his biennial report of 1901-02, President Houston, then of this College, now of the University, says: "It seems clear that it is a matter of State policy to furnish at the Agricultural and Mechanical College industrial or technological training of every kind whatsoever to the young men of the State. It seems clear that the College was intended to be, in the largest sense, the Technological Institution of Texas." This view so admirably expressed, can hardly be called into question by any one familiar with the history of the higher educational institutions of the State. This being true, surely it is time the State should equip the College for educational leadership in technological and industrial work. One of the prerequisites for the College to take this leadership among educational institutions of its kind is an Engineering Building or buildings; for three of the leading departments of the College are to be provided for in one or two buildings, as may be determined upon. The removal of these departments to separate buildings will relieve the congested condition in the Main Building and in Gathright Hall, thus providing much needed additional space for offices and class-rooms.

*Dormitory.*—Leading universities and colleges in every section of the country are now adopting or demanding dormitory facilities. Few colleges indeed are satisfied or contented that students shall be compelled or forced to room apart from the institutions. Harvard, Yale, University of Virginia, Chicago University, and others provide dormitories for such of their students as may desire it, and the students themselves are coming more and more to demand it. President Schurman, of Cornell University, closes his biennial report for 1905-06 with this strong presentation of the matter: "The students themselves feel keenly the inadequacy of the provisions which the University at present makes for their physical, economic and social welfare and also for their education outside of the halls of instruction." \* \* \* "They demand dormitories or halls of residence and a dining hall on the campus, in which they may enjoy, along with reasonable provision for their comfort, the inestimable advantage of social intercourse with fellow students and mutual education under a common roof instead of enforced isolation in private houses and increasingly high prices for board and lodgings to which they are now condemned." Coming, as this does, from a man of national reputation in educational affairs, it is a strong statement properly presented. Surely, if this demand is made by students living in one of the prettiest little cities in the country, it is not unreasonable for the students of the Agricultural and Mechanical College, and many others who would like to become students, to expect a similar consideration from the State of Texas. We earnestly recommend that the Executive urge upon the next Legislature the absolute necessity of providing for this building.

*New Cottages.*—It is necessary with the growth of the College to en-



large its teaching force and provide houses for them. We do not consider it necessary to present argument to justify this appropriation.

*Farm Implement Building.*—We hesitate to put the statement in print, but consider it nevertheless our duty to say, that the present shed used for this purpose is a discarded cow shed; so the condition is just this: Nearly all the machinery is loaned the College by the manufacturers with the provision of course that they can recall it at any time, and then it is housed in a shed totally unfit to keep it in proper condition, to say nothing of the needed room for instruction.

*Veterinary Hospital.*—No man in the State has rendered it a greater public service than that given by Dr. M. Francis, Professor of Veterinary Science in this Institution, in his work in connection with the control of the so-called Texas fever. It would be impossible to place an equitable estimate on his service, measured in actual dollars and cents. He is a man who can render even greater service to science if only the means are provided for him. Particular attention is directed to the report of his Department in the succeeding pages.

*Natatorium.*—Two years ago we asked for \$18,000 in order that adequate bathing and swimming facilities could be provided for the students. It seemed impossible at that time to interest the Legislature in this important sanitary demand. This time we are asking for only \$10,000, realizing that this will not be sufficient to furnish both bath room and natatorium facilities, but we must do something, in the most economical manner possible, to provide measures that will at least meet the demands of health and comfort.

Respectfully submitted,

MARION SANSOM,  
President Board of Directors.

#### ESTIMATE OF APPROPRIATIONS REQUIRED.

##### *Regular Appropriations.*

	Aug. 31, 1908	Aug. 31, 1909
For Maintenance .....	\$50,000 00	\$50,000 00
Power Plant .....	5,000 00	5,000 00
Agricultural Department .....	600 00	600 00
Mechanical Engineering Department .....	900 00	900 00
Horticultural Department .....	600 00	600 00
Veterinary Department .....	500 00	500 00
Animal Husbandry Department .....	750 00	750 00
Department of Physics and E. C. ....	900 00	900 00
Department of Botany .....	235 00	235 00
Department of Entomology .....	750 00	750 00
Apiary .....	500 00	500 00
Insectary .....	500 00	500 00
Civil Engineering Department .....	500 00	500 00
Care of Grounds and Roads .....	2,000 00	2,000 00
Fuel .....	2,000 00	2,000 00
Architectural Engineering .....	500 00	500 00

Publishing Bulletins .....	1,000 00	1,000 00
President's Contingent Fund .....	4,000 00	4,000 00
Student Labor .....	7,500 00	7,500 00
Support of Beeville Station .....	3,000 00	3,000 00
Support of Troupe Station .....	3,000 00	3,000 00
Textile School .....	750 00	750 00
Board's Expenses .....	500 00	500 00
Farmers' Institutes .....	6,000 00	6,000 00

*Special Appropriations.*

Laboratory and Shop Equipment for the Schools of Agriculture and Engineering...	\$25,000 00	\$25,000 00
Repairs .....	10,000 00	10,000 00
Steam Heating Plant.....	50,000 00	.....
General Experiment Fund .....	5,000 00	5,000 00
Roads .....	5,000 00	5,000 00
Extension of Sewer.....	3,000 00	.....

*Buildings.*

Engineering Building .....	\$75,000 00	.....
Dormitory .....	50,000 00	.....
New Cottages .....	6,000 00	.....
Farm Implement Building .....	4,000 00	.....
Veterinary Hospital .....	10,000 00	.....
Natatorium .....	10,000 00	.....
Two Laborer's Cottages .....	2,500 00	.....
Live Stock and Sheds .....	2,500 00	2,500 00

APPROPRIATIONS FOR THE STATE NORMAL AND INDUSTRIAL COLLEGE,  
PRAIRIE VIEW, TEXAS.

*Regular Appropriations.*

For the years ending	Aug. 31, 1908	Aug. 31, 1909
Maintenance of State Students, one to each Senator and Representative, provided that each appointee shall pay one-half the cost of maintenance .....	\$17,500 00	\$17,500 00
Agricultural and Mechanical Departments...	3,500 00	3,500 00
Roads and Grounds .....	1,500 00	1,000 00
Repairs and Painting .....	2,500 00	2,500 00
Library and Laboratory .....	750 00	750 00
Postage, Stationery and Printing .....	500 00	500 00
College Course .....	1,500 00	1,500 00
Female Industrial Department .....	800 00	800 00

*Special Appropriations.*

Student Labor .....	\$1,000 00	\$1,000 00
Three Cottages for Professors .....	5,400 00	.....
Fences and Bridges .....	2,500 00	1,500 00
Sewerage System .....	5,000 00	.....
Furniture for Dormitories .....	500 00	500 00
Addition for Trades Building .....	5,000 00	.....
Ice Plant .....	1,500 00	.....
Agricultural Building .....	5,000 00	.....

Respectfully submitted,

M. SANSOM,

President Board of Directors.

## PRESIDENT'S REPORT FOR 1905-06.

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*Hon. Marion Sansom, President of the Board of Directors.*

DEAR SIR: I beg to present for the consideration of your board the following biennial report concerning the condition and needs of the College.

*General Statement.*—The College is in a satisfactory condition. The health of the students has been excellent, and the discipline all that could be desired. The preparation of the students in attendance this year is exceptionally good. While the minimum age limit for entrance (16 years) has remained the same, the actual average age of the students is considerably above that of last session.

The positions which our graduates fill and the demand for them even before graduation, is the best testimonial of the work being done by the College. Our alumni are represented in positions of responsibility and trust connected with almost every line of industrial activity. Their influence and service to the State is being steadily extended, and their success creates a rapidly growing demand from young men for entrance to the College.

The admission requirements for students entering the College have not been changed during the last two years. This session these requirements were enforced a little more stringently than they have been in the past, with the intention mainly of excluding enough students to confine the attendance to the dormitory or rooming capacity of the College. Many students were in this way shut out from the Institution, but the overflow, much greater than before in the history of the College, was upon us, and it seemed a hardship to send young men away who were so anxious to profit by the opportunities which the College affords for an industrial education. A fair choice of those to remain, or those to leave, could not have been made except by casting lots; even in this way some of the best material might have been sent home and the inferior allowed to remain. On the whole it seemed best to crowd all, not excluded by strict entrance requirements, into the barracks; three in many of the small rooms, and in some instances four. One residence being temporarily vacant, this was used for several members of the Senior class. The students themselves cheerfully accepted this crowded condition, although it was realized from the first by the College authorities that it was not conducive to the best results either in study or discipline. After a trial it was decided to buy tents, as far as our limited funds would allow, and put some of the boys in these, in order that the congested condition in the barracks might to some extent at least be relieved. The attendance since the founding of the College, as shown by the following table, will be of interest:

Annual attendance since the opening is as follows:

1876-1877.....	106	1892-1893.....	293
1877-1878.....	331	1893-1894.....	313
1878-1879.....	248	1894-1895.....	372
1879-1880.....	144	1895-1896.....	354
1880-1881.....	127	1896-1897.....	311
1881-1882.....	258	1897-1898.....	337
1882-1883.....	228	1898-1899.....	356
1883-1884.....	108	1899-1900.....	396
1884-1885.....	112	1900-1901.....	382
1885-1886.....	170	1901-1902.....	407
1886-1887.....	176	1902-1903.....	396
1887-1888.....	214	1903-1904.....	378
1888-1889.....	207	1904-1905.....	414
1889-1890.....	279	1905-1906.....	416
1890-1891.....	318	1906-1907.....	515
1891-1892.....	331		

It may be well here to call your attention to some of the various interests represented by the parents or guardians of our students. We have the sons or wards of 130 farmers, 14 carpenters and contractors, 18 bankers, 26 lawyers, 24 physicians, 57 merchants, 28 widows, 6 railroad officials, 20 real estate and loan men, 9 lumbermen, 30 mill superintendents or owners and manufacturers. In less numbers almost every honorable avocation of life is represented.

*The Tents.*—Students occupying these have been made as comfortable as possible, and it is believed that their health will be quite as good as that of those who live in barracks. Still one can not tell as yet the effect of our extremely cold northers.

*Location of the College.*—From time to time since the College was founded there has been some criticism as to its location. These criticisms have belonged to one or more of three classes or divisions. First, those who objected to its location here from an apprehension that the locality was unfavorable to the health of the students. Believing particularly that it was a malarial district. So far as I know, this criticism has passed away. Its validity at least has been completely disproven. If there are any with whom this fear still lingers, they have only to remember that the malarial mosquito is responsible in any locality for the disease. *The second objection* was, that the soil is poor and will not yield the same crop returns as those furnished by the more fertile soil districts of the State. This condition undoubtedly exists, but not to that degree that has been supposed by some people. It has been urged that “scientific farming”—whatever meaning may be attached to that term—could not be carried out successfully here. That the College farm should have been located on soil “where things would grow” and where a demonstration of advanced methods in farming could be shown to the best advantage. This, for a time, was a popular objection and seemed a reasonable one. But it is no longer sufficient. The policy of the State, not yet fully developed, in fact only introduced, of establishing sub-experiment stations in different localities of the State has broken down whatever weight the second objection may have had originally. These stations when established with a view to local conditions of soil, climate,



market, and accessibility, will, if properly supported by the State, supply the demands made by the farmers of the State for practical demonstration of the farm capabilities and development in these several localities; they should represent conditions prevailing over as wide territory as possible. Texas is so large, with such a variety of soil and climate, that work along scientific lines in agriculture, horticulture, and animal husbandry should be duplicated at not less than a half dozen sub-stations, as conditions demand. *The third objection* urged against the location of the College is that it is not near a large city where the boys can have free access to the industrial enterprises of these cities, and where society may be constantly accessible for the culture and amusement of the students. This is the only objection now seriously urged against the location of the College. It may be well to mention here some of the advantages to the College accruing from its seeming isolation. Advantages which are appreciated by the parents of so many sons of the State that we have been unable to provide for their accommodation, turning away an increasing number year after year of those who would like to enter our doors. The most cogent advantage is, that the boys are in a large measure removed from those temptations which beset young men; bad company and the evils which follow in its wake; idleness, saloons, gambling hells, disreputable resorts. Again, at an industrial college, the most important secondary aim should be the cultivation of the *spirit* and *habit of industry*. There should exist at such an institution, and does exist here, an atmosphere of industry with a recognition of the dignity of labor. Working clothes, overalls and jumpers, grimy hands and faces, should not be scowled at by an element of society gentry, if the best results are hoped for in the development of the future technological or industrial man. We all need to know once for all, that labor and education are not incompatible, and that in technological or industrial training, one should be the handmaid of the other. It is true, there are some advantages in boys being accessible to cities. There are some desirable opportunities which can not be elsewhere obtained. But for the young man who desires to make the best possible use of his college years, popular society, except in a very limited way, is not advisable. Its pleasures and profits may well be postponed for a more convenient season. Technological men, at some time during their college course, should have access to the large manufacturing and industrial enterprises to be found in cities. The most popular way of getting this advantage is by "students' excursions"—accompanied by the instructor. Even students in the Boston School of Technology find it necessary to take summer excursions over New England in the study of manufacturing processes. Our students are accessible to Fort Worth, Dallas, Houston and San Antonio, and are usually carried to one or more of these cities before graduation.

Finally, if Cornell University, whose greatness and usefulness with her five thousand students, no one will have the hardihood to deny, can develop this growth in a city of twelve thousand inhabitants, is it unreasonable to expect that the growth of the Agricultural and Mechanical College, if properly supported by the State, may be commensurate with the development of the State and the normal growth of our nearby little city of Bryan with its five thousand inhabitants?



*Courses of Study.*—The College now offers five courses in Engineering, as follows: Mechanical, Civil, Electrical, Textile and Architectural. Three courses in separate lines of Agriculture; one in Farm Crops, or Agriculture proper; one in Horticulture; one in Animal Husbandry. Making a total of eight different lines of industrial education in which a young man who enters the College may specialize before graduation. In addition to these four-year courses, short courses in Agriculture and allied subjects have been given when the attendance of the regular students was sufficiently small to permit dormitory space for the short-course men. This winter, however, we shall not be able, owing to the crowded condition of the barracks, to hold a short winter course for the farmers of the State. This is a condition which is likely to exist for two or three years more, even with the additional dormitory asked of the Thirtieth Legislature. We shall try, therefore, if funds will allow, to have a short Industrial course during our summer vacation.

*New Courses to be Established.*—The College is yet in need of two additional courses, if the demands of those seeking entrance are to be met. One is a course in Chemical Engineering. There are many industries in this State in need of superintendents educated as Chemical Engineers. This is notably true of the rice, sugar, and petroleum oil mills. Then there are packeries, cotton seed oil mills, wood distilling plants, and various others that would seek for the services of the Chemical Engineer. The other course needed is one in *Mining Engineering and Metallurgy*. There are great possibilities in Texas for the development of the mining industry, but joining the border of Mexico, as our State does, the opportunity of the Texas mining engineer is especially inviting. We should offer facilities in the line of Mining Engineering to the young men of our State that if accepted, would enable them to profit by the great opportunities existing in Mexico today for properly trained men.

*Affiliated Schools.*—It is the policy of the authorities to encourage a closer relation between the College and the Public Schools of the State. We now have about two hundred affiliated schools. The graduates of these schools are admitted to our Freshman class without examination. As the time of our instructors will allow, and opportunity will permit, they will visit these schools, and offer suggestions and aid, especially along the lines of industrial training. Our college men will in this manner have opportunity to bring themselves and the College into closer contact with the conditions that obtain in the public school system of the State, and it is believed we can be of service in helping to direct the schools into somewhat more practical lines.

*Agriculture in the Public Schools.*—The trend of college education has for several years been toward technical and agricultural lines. This has resulted largely from a belief that the industrial activities of the nation were to be developed by men who had been trained in schools which specifically treated of subjects and problems actually confronting the farmer, the mechanic, the manufacturer, in his daily business affairs. Whatever culture, according to the old idea of it, could be obtained from the pursuit and mastery of these practical studies, well and good; but the chief aim has been to teach the men how to make a living without capital, after leaving College; and while making this living, to contribute with his own hands and brain to the wealth of the State or

nation. The South, more than any other part of the nation, needs to foster this type of educational training. For the South is behind in Agriculture—or more accurately speaking, the economy of Agricultural practice; she is badly behind in nearly all lines of manufactures. The development of our natural advantages and opportunities along both of these industrial lines is sure to take place; indeed it is rapidly taking place now, and the main question is, whether we shall educate our own sons in a manner that will enable them to become the beneficiaries of the normal industrial development of the State, or whether we shall import the sons of the North and West educated at their own schools and make them the leaders of our technical and agricultural development. Realizing in some measure the importance of contributing increased support toward the industrial training of our boys and young men, the platform adopted at the last State Democratic Convention declared for the introduction of Agriculture into the public schools. Agriculture will continue to be the real basis of the State's prosperity, and the more rapidly our methods on the farm can be improved, the more rapid will be the State's prosperity, and the more contented, prosperous, and happy, will be our rural population. To this end, training in agricultural subjects should begin in the public schools. The College is ever ready to aid in the promotion of this work should the Legislature and the Governor of the State desire it. In my judgment, the expense of the undertaking ought to be provided for by a specific law.

#### DEPARTMENT REPORTS.

Attention is invited to the reports of the several heads of departments for a full statement of their needs, and an account of the work accomplished.

Special attention is invited to the equipment needs mentioned by the Head of the Department of Mechanical Engineering. Work in this department should lay the foundation for the specialization which the student gives later in the other engineering courses. The department has suffered somewhat in the past for the want of proper support. The course in Mechanical Engineering has not kept abreast with the development in the other courses. It needs to be strengthened and supported, first by the State and then by the College authorities until it attains that strength and prestige intended by the law creating the Institution.

*Department of Civil Engineering.*—Particular attention is directed to Professor Nagle's report of the history and growth of his department, as it shows not only the efficient work done by the department, but emphasizes also the growth of the Institution. Special attention is also invited to the report concerning the statements made of the necessity for a new building to be properly equipped. The department has reached, perhaps, its maximum efficiency to the College, and to the State, until more space and additional equipment is provided.

*Department of Physics and Electrical Engineering.*—The growth of this department during two years has been phenomenal, and of course attests the demand by the people of the State that their sons have train-

ing in this line that the College affords. But this very growth is embarrassing to the authorities of the Institution. It is not merely a question of providing lodging or dormitory room for the boys, but we are confronted with the even more serious problem of providing teaching or class room space, a sufficient number of instructors, and adequate apparatus, for teaching these boys when admitted to the College. Special attention is invited to the report of Dr. Brown, concerning the need of a new building and the purchase of sufficient equipment.

*Department of Architectural Engineering.*—This department has for a number of years given most satisfactory instruction in drawing. Since the last biennial report, Architectural Engineering has been added to the work. This course is very much needed for the young men of the State. Too often our buildings, both public and private, as well as construction work for railroads, etc., are put up without reference to stress and strength of material. The draftsman who has the eye and hand of an artist, but who is untrained as an engineer, and therefore not a competent architect, is yet too frequently the successful bidder for commercial work. Attention is invited to the report of Professor Giesecke showing the number of students instructed last year, and the necessity for more space and better equipment.

*Department of Textile Engineering.*—Professor Wier presents the first biennial report of the Texas Textile School and he gives an encouraging account of its operation for two years. The manufacturers of Textile machinery have been particularly generous in their donations to the School, and the equipment is good for a new department; still, it is far from being complete or what it should be in comparison to Textile schools at other colleges similar to this. Attention is invited to the detailed statement in the Professor's report of the additional equipment needed and asked for.

#### THE SCHOOLS OF AGRICULTURE.

There are three courses offered in the science of Agriculture. For the first two years the courses are the same; then the student is given an opportunity to specialize in field crops proper, in Horticulture or in Stock Breeding. But since it is impossible to separate completely these divisions in actual farm practice, the courses are not entirely separated even during the last two years. That is to say, there are some studies or subjects in common in all three of the courses.

Any system of education in Texas which fails to recognize agriculture as the fundamental source of the State's prosperity and wealth is faulty. Not only should the fundamental principles underlying agriculture in its broadest meaning be introduced, as practicable, into the public schools, but the opportunity should be offered by the State for her sons to receive the best training in higher agricultural education that is afforded in the Nation. In so far as Texas falls short of this standard within a reasonable time for development, she is recreant to her duty and interest. It should be the ambition of the College authorities, in so far as the State will furnish aid, to bring the agricultural side of the College up to the very highest standard. To accomplish this work



successfully, the best men obtainable and the best facilities for instruction should be supplied. As stated elsewhere in this report, the work of the College, including as it does, the Department of Experiment Stations, is not local, and of course is not confined to the mere instruction of students. It includes in its scope the education of the farmers of today, as well as that of the farmers of the future.

*Department of Farm Husbandry.*—The manufacturers of farm machinery, like those of textile machinery, have been exceedingly generous to the College. However, in most cases the farm implement dealers have simply *loaned* their material to the Department, while the Textile dealers have donated their machinery outright. A Farm Machinery Hall is very much needed, and funds for properly equipping. Attention is invited to the report of Professor Jöhnston.

*Department of Animal Husbandry.*—Professor Marshall has successfully conducted this department, and extended its work and usefulness, under many disadvantages. Although the stock industry is one of the greatest industries in the State, an industry represented by the most distinctive type of public spirited men, still in some way past Legislatures have not given that recognition we should expect to the development of stock raising or to the demands of ranchmen for educational work along channels that would prove of inestimable benefit to their sons and to the other young men of the State who desired to follow them in the avocation of stock farming. Your attention is particularly invited to that part of Professor Marshall's report concerning the equipment needed, and to his plan of developing the department. His views are considered sound and safe.

*Department of Horticulture.*—The efficiency of this Department has steadily increased during the last two years. As stated in Professor Kyle's report, to which attention is invited, the department has done much outside work in addition to the regular College and Station duties. Professor Kyle has been particularly active in aiding in every manner possible the rapidly enlarging fruit industry of the State, while Professor Green has contributed greatly to the development of the truck crops.

*Departments Most Closely Allied to the Work in Agriculture.*—Agricultural Chemistry, Veterinary Medicine, Entomology, and Botany, are subjects absolutely essential for an education in agriculture. They are also indispensable in aiding the farmer to solve the practical difficulties and questions that confront him almost daily. These departments must be fostered if agricultural education is to be promoted, or agricultural methods developed.

*Department of Entomology.*—This department has been very inadequately supported the past two years, if anything is really expected of it. Attention is directed to the very full report of Professor Conradi, showing the lines of work under way, and the dangers that beset the fruit and truck crops of the State from insect pests. Our experience with the boll weevil ought to stimulate us not to remain indifferent to the introduction and early damage of insect pests, such as the melon louse, the sweet potato borer, and the orange maggot. In South Texas these pests are a menace to the profitable production of the respective crops upon which they depredate.

*Department of Veterinary Medicine.*—This department is constantly

called upon to visit districts of the State where there is an outbreak of contagious diseases among domestic animals. In many instances it is impossible to give material assistance to the farmers whose stock is affected because there are no facilities here for properly carrying on the work of investigation. Again, we have now, by enactment of the last Congress, a considerable fund for original investigation in the sciences related to agriculture. This is known as the Adams Fund, but it can be used only for original investigation, not for buildings. If the State fails to supply this department with the proper buildings for carrying out the purposes of the fund, it thereby deprives itself of the benefits which should accrue, so far as investigation on the diseases of live stock is concerned.

*Department of Chemistry.*—It may be said that chemistry is to agriculture as mathematics is to engineering. Essential in either case, respectively, if one is to be educated in the applied science. It is true that only Agricultural Chemistry is so nearly related to Agriculture; but a training in General Chemistry must, of course, underly one's knowledge of chemistry as related to the farm. The department has been separated into two divisions: General Chemistry under Dr. Blake, and Agricultural Chemistry under Dr. Fraps. Their respective reports will be found interesting, and their recommendations are endorsed.

*Department of Botany.*—This Department, presided over by Dr. Ball, is also connected with the Station work. In addition to effective classroom work, the head of the department has carried out important lines of investigation. Such as a study of the nitrogen bacteria affecting various legume plants. An extensive examination of the quality of plant seed offered for sale in the State. Other important lines of investigation are now under way.

#### GENERAL DEPARTMENTS.

In addition to the general subjects above mentioned so intimately related to Agriculture, there are other departments giving instruction in general studies, some of which constitute the very foundation of college work. Mathematics, English, Languages and History are all very important departments doing excellent work; but they may be dismissed here with only a passing notice, as they require very little in the way of equipment, and therefore make practically no demands upon the College authorities or the Legislature.

#### DEPARTMENT OF HEALTH.

The health of the students during the past two years has been remarkably good. The medical and hospital service is all that could be asked. Last June the College lost the services of Dr. H. M. Lanham, who resigned to enter private practice. Dr. Lanham had served the College with signal ability and fidelity. He was succeeded by Dr. Joe Gilbert, who has already proven the wisdom of your selection. Dr. Lanham's last annual report and Dr. Gilbert's supplementary report thereto, are both given for your information.

## EXPERIMENT STATIONS.

The work of the Experiment Stations has been satisfactory, although the two sub-stations do not have money sufficient to render them entirely successful. They should have \$5000 a year each for operating expenses, instead of only \$3000. This would enable them to enlarge the scope of their work, and greatly increase their usefulness to the localities where situated and to the State at large.

The Main Station, here at College, has produced some valuable results during the past two years. These results have been published in bulletin form and sent free to those applying for them. By the terms of the Adams Act, passed by the last Congress, the usefulness of this station will be greatly increased. The State should now supplement this fund donated by the United States Government.

The College was unfortunate in losing the services of former Director Craig, whose health became so impaired that he decided he must give up his work. His successor has not yet been selected, but the duties of the office are performed by Vice-Director J. W. Carson. Attention is invited to the last annual report of Professor Craig and to the supplementary report of Mr. Carson.

A most important line of work is carried out here by Mr. R. L. Bennett, who is the joint agent of the College and the United States Department of Agriculture. His energies have been directed mainly to the improvement of cotton, but the past season he has given some attention to corn breeding. At my request Mr. Bennett has furnished the following brief statement of his work:

*Cotton Breeding.*—"Of the methods of cotton growing that can be improved, it is confidently believed that the improvement of the seed, in productiveness, earliness, and other qualities offers the greatest possibilities in increasing the profits of cotton growing. One attractive feature of greater profits from the use of better seed is in getting the increase without extra labor and practically no expense. Until the appearance of the boll weevil, growers gave little or no attention to the inherent producing power of their cotton. The ravages of that insect, however, soon taught growers the value of more productive and earlier cotton and from that teaching growers are now convinced that, weevil or no weevil, cotton breeding and seed selection have possibilities hitherto unappreciated. Three years ago work was begun to breed better cotton and to get information of the factors involved in the matter. Our work was entirely new, as up to that time nothing had been done on the subject. Since beginning the work, the method for producing more prolific and earlier cotton has been determined. Also new strains of cotton that are much earlier than any cottons now grown and equally as productive have been produced. These new early cottons planted this year on the 15th of April were fully matured and all bolls open by the 20th of August, a period of only about four months from planting to harvesting. The quality of early maturity is, regardless of the boll weevil, a matter of as great importance as that of greater productiveness, since the crop may be harvested before the quality of the fibre is damaged by unfavorable weather. Some of our selections this year yielded at the rate of a bale and one-half per acre.



The method of seed selection developed by this cotton breeding work has been published in two bulletins and in newspapers to aid the cotton growers of the State."

*Testing the Producing Power of Some Texas Seed Corn.*—"It is generally believed that Texas corn growers are not realizing as large yield of corn per acre as their soil and efforts justify. The College made a test to determine to some extent the relative producing quality of the seed used in the State. The yields per acre of the ears collected from growers varied from fourteen bushels, average for all, to twenty-six bushels for the highest yielding ear. The low average yield was to some extent due to the very dry season. The producing power, however, is shown in the difference between the average yield and the highest yield, which difference was twelve bushels per acre. This twelve bushels indicates the low producing power of this seed corn and it also indicates the amount of loss that growers sustain from planting such corn. There is no question that the productiveness of the largest producing ear, twenty-six bushels per acre, could, by care in selection, be increased at least 25 per cent. The loss of twelve bushels per acre is very probably a fair indication of what the corn growing industry of the State is losing for the want of proper attention to the matter of seed growing and selection.

This test and directions for properly growing and selecting seed corn has been published in a bulletin and in newspapers for the use of corn growers."

#### FARMERS' CONGRESS.

Sessions of the Farmers' Congress have been held at the College regularly for the past two years. These meetings are of great benefit to the State and should be encouraged. During the session of 1905 the capacity of the College for accommodations was entirely overtaxed, but this year measures were taken to restrict the free transportation, generously furnished by the railroads of the State, especially by the Sunset system and the International and Great Northern system, and the College was thus able to accommodate comfortably the entire crowd.

Respectfully submitted,

H. H. HARRINGTON,  
President.

# REPORTS OF DEPARTMENTS.

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## REPORT OF DEPARTMENT OF AGRICULTURE.

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*H. H. Harrington, President Agricultural and Mechanical College of Texas, College Station, Texas.*

DEAR SIR: I am sending you herewith my biennial report of the work in the Department of Agriculture for the years of 1905-06.

1. There is a large amount of work connected with the department which does not appear. Such work has included for the past session the installment of a farm machinery laboratory and partial installment of a farm crops laboratory, the direction of the College creamery, institute work and correspondence. The installation of these laboratories has very greatly increased the effectiveness of the work of the department, and their further equipment will make possible very satisfactory work along the lines of farm crops and farm machinery.

2. Improvements have been made in all branches of the department. In farm machinery there has been added the following implements: A Fairbanks-Morse 6-horse power vertical gasoline engine, a complete line of the International Harvester Company's surface-working implements, shafting, pulleys and belting for the operation of machinery already in the laboratory consisting of one Deering and one McCormick grain binder, one Deering and one McCormick corn harvester, one McCormick corn shredder, one Bowsher feed mill, and one Fairbanks-Morse feed mill. A double power and a Challenge wind mill have been erected, an International Harvester Company and a Challenge engine have been connected to shafting, and serve with the Fairbanks-Morse engine to produce power for the operation of the entire laboratory. This laboratory might have been in possession of a 12-horse power traction engine and a grain separator but for the lack of suitable quarters in which to locate such machinery. In addition to the machinery just mentioned, the department has repaired and put into operation in the College creamery a 4-horse power steam engine and an 8-horse power boiler. This combination serves for instruction in steam power for the farm.

Considerable progress has been made during the session in equipping a laboratory for the study of farm crops. Tables for the examining, grading and judging of grains have been placed in the laboratory and a considerable number of grain and mill products have been provided for this work. Grain graders and germinators have been installed and cases built for the storing of seeds. This work should be greatly extended and made to meet the demands for instruction in this line in a State which stands well up in the rank of crop producing States.

There has been added to the equipment of the soil physics laboratory a centrifuge to facilitate the work in mechanical analysis of soils, otherwise the equipment of this department is substantially as that of last year.

3. In order that the work of the department may be kept up to its present standard and a general improvement made, it will be necessary that a sum of \$2000 be appropriated for further equipment in farm crops, soils, and farm machinery. To support these three lines of work will also require a maintenance and support fund of \$700. These figures are extremely conservative and are based upon minimum estimates. It will be noted that there remains a large amount of work to do in the work of completing the farm crops laboratory. This work will require a sum of money not less than \$400. The soil physics laboratory is in imperative need of additional apparatus which will cost approximately \$250 to install. In the farm machinery laboratory a sum of \$1550 will be necessary in order to properly carry out the work already begun, making a sum total of \$2000. With our laboratories properly equipped there will be greatly increased interest in this line of work. The laboratory work, however, should be supplemented by having the College farm directly available for illustration.

It seems imperative that some further provision be made for instructors in this department. At present the entire work is carried on by the head of the department with a student assistant. In order that the work as now arranged may be properly carried out, I recommend that an additional instructor be provided at a salary of \$1200 a year, and that the position of student assistant be continued. With the additional help mentioned our present standard of instruction can be maintained. The hours as now catalogued are approximately double those of the old curriculum.

4. While not an organic part of this department, the work of managing the College creamery has been under my direction. I am making a separate report of creamery matters but think it proper to include here certain recommendations concerning the equipment and maintenance of the creamery. In addition to what has already been done, I would recommend that a sum of \$300 be appropriated for further improvements in the College creamery, and that a sum of \$200 be appropriated for the equipment of a dairy laboratory in which the bacteriology of milk and other problems relating to its production and marketing could be studied. For the maintenance and support of the creamery there will be needed the sum of \$250.

Very respectfully submitted,

F. S. JOHNSTON.

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## REPORT OF DEPARTMENT OF HORTICULTURE.

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COLLEGE STATION, TEXAS, October 24, 1906.

*President H. H. Harrington, College, Texas.*

DEAR SIR: I hand you herewith biennial report of the Horticultural Department covering the work of the past two years, with suggestions and recommendations for the future.

## WORK DONE BY DEPARTMENT NOT PROPERLY BELONGING TO THE COLLEGE OR STATION.

A considerable amount of work has been done by this department during the past two years not properly coming under the regular College or Station duties. During the fall of 1904, and the winter and spring of 1905, myself and assistant, Mr. Green, assisted Mr. J. W. Carson to a considerable extent in the work of Farmers' Institutes. No record of the number of meetings attended by members of this department was kept, but the territory covered ranged from Dallas on the north to Laredo on the south.

## AGRICULTURE IN THE PUBLIC SCHOOLS.

I have also spent considerable time in developing interest in teaching agriculture in the public schools of Texas. As early as December, 1903, I made an address before the State Teachers' Association upon the subject. This address, which was afterwards published by the leading dailies of the State and several magazines, seems to have been the first article published upon the subject in this State. Since that time the press of the State and different organizations have taken up and agitated the move. I have since that time spoken upon the subject in many sections of the State, addresses having been delivered before the State Teachers' Association, the State Horticultural Society and State Farmers' Union. There has been so much interest aroused in the State that it seems very probable that the next Legislature will pass a law making agriculture a compulsory study in our public schools. I am very doubtful if this will be a wise movement just at present, but the demand of the people must be met in some way, and if the law should be passed I believe the movement could be greatly strengthened by having a man who should have general supervision of the work, and should issue literature upon the subject for the guidance of the schools. It seems to me that this person would do much more effective work if he should be stationed at the Agricultural and Mechanical College.

## CORRESPONDENCE AND PUBLICATIONS.

The correspondence of this department is constantly increasing. Last year there were something over twelve hundred letters received and answered, while this year fifteen hundred and thirty-six have been filed and replies made.

During the past two years a bulletin has been published from the Beeville Station upon Onions and Bunch Crops, one from Troupe Station upon Tomato Fertilizers, and one from this Station upon Peach Growing in Texas. A booklet upon Pecan Culture, written by Mr. E. E. Risien, of San Saba, Texas, has been purchased and is now being sent out by the Station. A bulletin written by Mr. T. V. Munson upon Grape Growing is now in press.



## ORCHARDS AND GARDENS.

The department now has the following orchards:

1. *Variety Peach Orchard*.—Consisting of thirty-two varieties, twenty of which fruited this past season. This orchard covers a little over an acre of ground. Notes should be taken on it for a number of years to come.

2. *Experimental Peach Orchard*.—This orchard covers a little over three acres of ground. Experiments in fertilizing, pruning, cropping and tillage are being made. Marked results have already been gotten on cropping and fertilizing. It would probably be advisable for a press bulletin to be gotten out this winter upon this subject; the experiments as outlined for the orchard, however, should be carried on further and published in bulletin form next year.

3. *Plum Orchard*.—Last winter the variety plum orchard was increased so as to include fifty-two varieties. The railroad spur was laid through part of the orchard which has interfered considerably with the results. On account of the road a number of large trees had to be transplanted late in the season and a great many of them died. There are enough left, however, so that important data should be gotten another year.

4. *Vineyard*.—A variety vineyard consisting of over twenty varieties, fruited for the first time this year. Careful notes have been taken, but the work will need to be continued.

5. *Fig Orchard*.—The old fig orchard has about died out so that it seems advisable to start another orchard this winter. This will consist of about a dozen of the hardier varieties.

6. *Pecan Orchard*.—I now have eighteen different varieties of soft shell pecans which have made their three seasons' growth. It is highly probable that some of these varieties will fruit next fall.

7. *Pear Orchard*.—A considerable number of trees have died in the old pear orchard facing the railroad. These trees have been dug up and young ones put in their places. By the end of this season the orchard will be completely worked over and will make a much better appearance.

The old peach orchard facing the railroad has about served its purpose. The railroad spur cut about through the center of it so that it is practically impossible to cultivate part of the trees. As they present an unsightly appearance I believe that it would be advisable to cut them down and burn them this winter. It might be of some value to cultivate the rest of the trees for another season or two.

*Garden Work*.—The department has been carrying on a farmer's garden for the last two years and now has sufficient notes and illustrations to get out an interesting bulletin upon the subject.

Fertilizer work on Irish potatoes has also been carried on, but on account of the unfavorable seasons the notes are not full enough to publish without one or two more seasons' work.

Important results were gotten with variety and fertilizer tests on tomatoes last spring, but it will take at least one more season's notes before publication should be made.

RECOMMENDATIONS IN REGARD TO WORK FOR THE NEXT TWO YEARS—  
INCREASE IN LABOR.

In taking charge of this department in the summer of 1902, I found only two orchards on the grounds. Since that time I have started, and now have bearing their first crop, two peach orchards, one plum orchard, one pear orchard and two vineyards. I also have eighteen varieties of soft shell pecans now making splendid growth. These together with the increase in the vegetable work, has added considerably to the expense of the department. Since 1902 my appropriation from the Station has been cut down from \$950 to \$750. With the increased amount of work, both in orchards and vegetables, it is almost impossible to keep the grounds in first class condition with the present running expenses. I therefore respectfully ask that the Horticultural M. & S. fund be raised to \$800 a year.

*Lantern Slides for Class-Room Work.*—This department has been making a special effort for several years to collect a series of photographs of various phases of Horticultural work carried on in different sections of the State. It is my earnest desire to have these views made up into lantern slides for illustrating lectures to classes. I believe this to be by far the most valuable form of class work, especially for work in Horticulture. To illustrate just what is proposed by this work, the following is given as an example: I am now having made at Beeville, the heart of the trucking section, views covering the trucking business from the preparation of the soil to the packing and marketing of the crop. These illustrations when made into lantern slides will be of the greatest value in giving the students instruction in vegetable growing.

This class of work, especially the making of the lantern slides, is expensive. I already have a valuable set of negatives taken from the various sections of the State, but many more are needed. To purchase supplies, take views and make into lantern slides, and fix up lecture room for the operating machine, will take approximately \$500. I therefore ask that the department be given that amount.

*Indoor Laboratory.*—The department has commenced the collection of a valuable set of different types of fruits and nuts. Last December we secured the exhibit of pecans made by the National Nut Growers' Association which met at Dallas. This is one of the most valuable collections of nuts in the United States. It is proposed to collect different types of fruits during the coming season and preserve them in formaldehyde solution. These collections of nuts and fruits are to be used in class-room work. In familiarizing the students with horticultural products, especially in this State, it is necessary for the fruit to be preserved on account of the ripening season coming during the summer or vacation time, which fact makes it impossible for students to study them in a fresh condition. It will cost about \$100 to equip this laboratory.



*Outdoor Laboratories.*—It is the purpose of this department to establish this year some first-class outdoor laboratories. I have become convinced that in order to secure the best results in teaching horticultural classes, it will be necessary to give them a large amount of practical work. I might say incidentally that this seems to be a weak spot in the Horticultural Department of practically all of our agricultural colleges.

There is a considerable demand made on this department (I have received two applications within the last month) for young men to manage fruit and truck farms in different parts of the State. In order to turn out such material it is necessary to thoroughly familiarize the students with the practical side of the work. This can only be done by having the following equipment:

A small well equipped nursery in which the students can be given practice in budding and grafting, being given enough work along these lines so that they could carry on the work successfully as soon as they leave College.

*Additional Orchards.*—The number of students taking work in this department has increased so that it is now practically impossible to give them thorough work with the orchards we now have, there only being four acres of peach orchard on the grounds. It would be of valuable assistance if the department could start at least two orchards consisting of three acres of peaches and one of plums. This would be sufficient to give the students all the practice in spraying, pruning and thinning that they should have. These orchards would also serve a double purpose in that valuable experiments could be carried on in spraying and fertilizing, two subjects which I consider of the greatest importance to the fruit growers of the State at the present time. In order to start these orchards and nursery mentioned above, it will take at least \$500.

*Fences.*—The Horticultural grounds have been suffering very much on account of not being properly fenced. Cattle from time to time have done serious damage to trees and truck crops. It would add very much to appearances if a first-class fence could be placed along the Horticultural grounds facing the railroad. This, as you probably remember, has been suggested by yourself. Then, too, the rest of the Horticultural grounds should be inclosed in fence that will keep out all stock. The cost of material and erecting such fence would be approximately \$100.

Total funds asked for:

M. & S. Fund .....	\$ 800 00
Lantern Slides .....	\$ 500 00
Orchards and Nursery .....	500 00
Indoor Laboratory .....	100 00
Fences .....	100 00

Total equipment .....\$1,200 00 \$1,200 00

Respectfully submitted,  
E. J. KYLE.

## REPORT OF DEPARTMENT OF ANIMAL HUSBANDRY.

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COLLEGE STATION, TEXAS, October 16, 1906.

*Dr. H. H. Harrington, President Agricultural and Mechanical College,  
College Station, Texas:*

DEAR SIR: I have the honor of submitting herewith report of the past two years' work of the Animal Husbandry Department of the College.

*Class Work.*—The Freshman, Sophomore and Junior classes are now being taught in accordance with the new course as first published in the catalogue issued for 1903-04. This course gives evidence of being well adapted to meeting the needs of the majority of Agricultural students; that is, as well adapted as our present equipment will permit. There are a number of young men in College, and, I believe, a very large number out of College, who would attend and be benefited by a shorter course, if one could be arranged in such a way as to give them largely practical work. I do not believe, however, that it would be wise to in any way alter our present four years' course, as with the equipment which we are likely to have, we will soon be able to make our four-year course sufficiently useful to attract prospective farmers to enter upon a course of that length.

Freshman Agricultural students, during their first term at College, receive lectures designed to familiarize them with what constitutes merit in beef cattle. In this work it not infrequently happens that young men who have been on farms or ranches for some considerable time after leaving their home schools make much better records than others who are well grounded in cultural branches, but have never come in contact with practical affairs.

In the second year the history and characteristics of each of the breeds of horses, cattle, sheep and swine are taken up, and so far as the stock owned by the College will suffice, classes of animals similar to those presented in the show rings are judged and reported upon by the students. This work has also been carried on at the shows held annually at Fort Worth, Dallas and San Antonio. At these places the students compared their opinions with those of the official judges. That the foundation so laid at this College is sound and practical, is shown by the record of our students in the last two International stock judging contests. In December, 1904, five students from this department made higher total scores than similar teams from the colleges of Iowa, Kansas, Canada and Minnesota. In 1905, of thirty-five contestants representing seven different colleges, a Texas student obtained the highest total score, also the representatives of this department made a higher score in swine judging than that obtained by any other team.

*Changes in Conduct of Department.*—In June, 1906, this department was given an area of land amounting to eighty acres. The pure bred swine were also returned from the Farm to the Animal Husbandry Department. I believe it to be the intention of yourself and the Directors that hereafter the Animal Husbandry Department shall maintain and manage the stock which comprises its teaching material, and do so

without any direct connection with the Farm Department. This has been a step in advance. It now remains to procure the necessary stock and accommodations therefor.

In September you arranged for this department to secure the services of Mr. Burns as assistant. Mr. Burns has already made himself popular as a very thorough teacher, and is especially qualified to give instruction in stock judging and to bring our experimental work into close touch with the cattle interest of the State.

*Equipment Secured.*—During the past two years various live stock registry associations have donated to the department complete sets of their records. We now have a total of about four hundred volumes. Filing cases for the preservation of these volumes have been provided. This equipment is a very valuable addition to the department and renders possible the giving of a very practical and useful course which could not otherwise be offered. The department has also purchased four steers, five head of registered Cotswold and Shropshire sheep and a fairly complete set of stereopticon slides. The use of these slides has been found the best possible substitute for the living animals, but does not permit the study of details and actual proportions so essential in the study of live stock. The breeders of the State, as before stated, have manifested a very encouraging interest in this part of the College work, and realizing our need of appliances, Mr. J. F. Green, of Gregory, very generously offered to allow us the use of his show herd of Short-horns for two weeks following the Fort Worth Fat Stock Show of 1906. This action of Mr. Green's very greatly facilitated the work of this year, and it is believed that other breeders will follow his example until such time as this department is in permanent possession of representative animals of the various breeds. While such loans greatly facilitate the teaching of judging to the lower classes, they do not in any way overcome the need of having breeding animals maintained here in such a way as to indicate to the students the most profitable methods of handling improved stock under practical farm conditions.

*The Equipment Needed.*—It is being more clearly demonstrated each year that the only possible way to properly prepare a student for a stockman's work is to fully familiarize him with the qualities of superior animals. He then becomes able to recognize undesirable characteristics in otherwise high class animals, and also to recognize and utilize desirable qualities in such low grade stock as it is sometimes necessary to handle. This makes it imperative for the College to maintain flocks and herds of a degree of excellence at least equal to the best within the borders of the State. This is necessary not only to furnish animals for exercise in judging and for inspection of visitors, but to give our students practical lessons in the breeding, raising and management of improved stock. To do this entails a more considerable initial expenditure than is required to equip the laboratories for any other subject, but once established such equipment is practically self-sustaining, and would be more than self-sustaining were it not for the necessity of maintaining so many breeds of animals for instruction purposes, and were it not necessary to maintain them under such expensive conditions as exist in this immediate locality. Texas is more than any other State essentially



agricultural. There is a very great variety of conditions. The tendency of all development, however, in each section is toward a system wherein live stock constitutes a prominent marketable product. The different breeds of stock are adapted, each to peculiar conditions. It is necessary, then, that students of agriculture, coming as they do from widely varying agricultural sections, should have placed before them fair representatives of each of the breeds. I do not consider it advisable to purchase at one time full and complete herds of all the classes and breeds of animals which we must ultimately use in this work. Foundation for herds of four breeds of swine is already laid, and additions and improvement can be made from the proceeds of young stock provided that only net proceeds must revert to the State Treasury.

It would be a conservative plan to purchase small foundation herds comprising only superior individual animals of three breeds of horses, seven leading breeds of cattle, three breeds of middle-wool sheep and three breeds of long and fine wool sheep.

The College does not now own a single horse, only a few registered dairy cows, and only five head of breeding sheep. The cost of procuring the above mentioned animals will be \$20,000.

*Support Needed.*—The eighty acres of land appropriated for the use of the Animal Husbandry Department is yet in an unimproved condition. There are no shelters or feed rooms such as are necessary in some months, and at all times for keeping a number of animals in proximity to the class-room. Also a majority of the purchases which it is supposed to make will naturally be young animals that must be maintained until old enough to repay with salable progeny the cost of their maintenance.

Amount needed for maintenance and support for the next two years is \$2500 per year; total, \$5000; total amount for next two years, \$25,000.

Respectfully submitted,

F. R. MARSHALL,

Professor of Animal Husbandry.



# AGRICULTURAL EXPERIMENT STATIONS.

## REPORT OF DIRECTOR CRAIG.

*President H. H. Harrington:*

The work of the Experiment Stations during the past year is almost wholly embodied in the bulletins which have been issued. There are a few lines under investigation which had not advanced far enough to be reported in bulletin form, but these are so exceedingly few that it would be hardly necessary to mention them, consequently I submit the bulletins of the year as a criterion of the work which has been done.

They are as follows:

No. 78—Animal Husbandry, F. R. Marshall.....	25,000 Copies
No. 79—Plant Industry, R. L. Bennett.....	25,000 Copies
No. 80—Horticulture, E. J. Kyle.....	25,000 Copies
No. 81—Botanical, O. M. Ball.....	20,000 Copies
No. 82—Chemical, G. S. Fraps.....	15,000 Copies
No. 83—Botanical, O. M. Ball.....	15,000 Copies
No. 84—Horticulture, W. S. Hotchkiss and E. C. Green..	15,000 Copies

The "Feed Control" is a feature which has been fully introduced this year. The State law placed this work under the control of the Director of the Experiment Station. It has been impossible for me to give more than a small portion of my time to this work, consequently I placed B. C. Pittuck, a graduate of this institution, in direct charge. For the purpose of seeing that the law was observed it was necessary to appoint several inspectors. Three were appointed, including C. O. Moser, M. S. Church, and J. C. Burns, all graduates of our College. The work of this department has been very beneficial to our farming interests, for it enables anyone purchasing stock foods to know exactly what they are getting. It has also improved the standard of our stock foods as most of the inferior foods under the operation of the law are shown to be inferior by analyses. As a result these inferior foods are sent to other States where there is no "Feed Control" to make known their low nutritive value.

For the chemical analyses we pay the Chemical Department of the Experiment Station \$3 for each analysis made. They employ L. McLennan and J. T. Cruse at \$800 per year with the list below, this covers all salaries that are paid by the "Feed Control":

B. C. Pittuck, Feed Inspector.....	\$2,200 00
C. O. Moser, Deputy Feed Inspector.....	1,200 00
M. S. Church, Deputy Feed Inspector.....	1,200 00
Jno. C. Burns, Deputy Feed Inspector.....	1,200 00

You ask also for a discussion of the work done at the two sub-stations as well as that done here, including also an outline of the work, or a part of the work, contemplated for the succeeding year.

In reference to the sub-stations I would say that up to this time the experimental work conducted at both of them has been altogether of a

horticultural nature and coming under the direct direction of Professor Kyle or Mr. Green with the superintendency of Mr. Hotchkiss at Troupe and Mr. Waschka at Beeville. At Troupe the work has been mostly a continuation of that of past years. This being the fourth year of a fertilizer test with Irish potatoes and the third year of a fertilizer test with tomatoes. The latter work has embraced a yield test with cucumbers for pickles; a yield test of cantaloupes; a sweet potato fertilizer experiment and trials with spraying tomatoes and trials with rust resisting cantaloupes.

At Beeville fertilizer tests are under way with onions and cabbage and also an experiment has been started in methods of irrigating vegetables by the furrow and flooding systems. Trials are being made also in growing onion seed, which has considerable importance, considering the large demand that there is for Bermuda onion seed throughout the Southwest. The trial with rust resisting cantaloupes and the yield test of cucumbers is similar to that under way at the Troupe station. Practically no other lines have been inaugurated at either of these sub-stations. It has been my idea to expand the experiment work at both these places by doing something with stock, especially dairy cattle and hogs, and undertaking more extended work with farm crops, such as alfalfa.

At the Central Station here the lines of work under way are very promising. Professor Bennet is making extensive cotton experiments in the selection of cotton seed to improve both the yield and earliness of the cotton crop. He has abundant land for his work but owing to the large amount of labor it has been necessary to employ he has been greatly hampered as to means of carrying it on. This obstacle, however, will be largely removed by the Adams Fund, which will be available the coming year.

Professor Marshall has been devoting all of his time to the study of the best and safest way of feeding cotton seed meal to hogs. This work is wholly under his charge and wholly supported financially by the Cotton Seed Crushers' Association. At this time a carload of hogs have been put through the second trial along these lines and we are finding out some important factors in the successful feeding of cotton seed meal.

Professor Kyle and Mr. Green have under way several potato and tomato fertilizer tests and cucumber yield trials as well as experiments with Bermuda onions. A farmer's garden has been maintained for several years and it is expected that enough material is now on hand to publish a very satisfactory bulletin on this subject. Something is being done also in experimenting with a peach orchard and a vineyard has also been established. The Horticultural Department is also carrying on valuable co-operative work with farmers at Franklin, Palestine and Dialville with tomatoes and cucumbers.

Dr. Ball has under way continuation of his work in seed testing and also experiments in nitro-culture. There are two especially important lines of work to our State at this time. It is hoped that he will be able to ultimately show as the result of seed testing work that there is need of a seed control law very similar to that of the "Feed Control."

The Chemical Department under Dr. Fraps has been busily employed in doing the work demanded of them by the "Feed Control" in making

many analyses of feeds. This useful information will be embodied in a bulletin which is now being prepared for the press by the "Feed Control." Something like 1300 analyses of Texas feeds will be published in that bulletin and this will give the stockmen and farmers of the State some important information which they needed badly in reference to Texas feeds.

The Veterinary Department under Dr. Francis has been continuing its service to the breeders of the State in inoculating cattle for Southern fever. This is an exceedingly important line of work and one which renders direct service to the stock interests of the State.

On the whole, the various departments of the Experiment Station are engaged in very practical lines and it is very gratifying to know that the chief impediment to the most satisfactory work is likely to be removed through the increased funds for various lines which will be available the coming year through the "Adams Act."

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## REPORT OF VICE-DIRECTOR.

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COLLEGE STATION, TEXAS, December 20, 1906.

*H. H. Harrington, President Agricultural and Mechanical College,  
College Station, Texas:*

SIR: In compliance with your request I herewith hand you brief supplementary report covering work of the Experiment Stations since the report of Director John A. Craig was made.

The following bulletins, circulars, and press notices have been published:

No. 85, 15,000 copies—"Commercial Fertilizers in 1905-06," by Dr. G. S. Fraps. This bulletin gives information concerning: The Fertilizer Law, Directions for Sampling, Form of Tag, Explanation of Terms, phosphoric acid, nitrogen, and potash; Fertilizer Valuation, 1905-06, Relation between Valuation and Selling Price. Application of Fertilizers, Fertilizers for cotton, corn, rice, potatoes, etc., Bat Guano, Fertilizer Receipts, and Analysis of Fertilizers, season 1905-06.

No. 86, 25,000 copies—"Cattle Feeding Experiments," by Prof. F. R. Marshall, Animal Husbandry Section. This bulletin gives results of feeding:

1. Molasses for fattening cattle.
2. Rough rice as a steer feed.
3. Discussion of *Profit* from different systems of feeding cattle.

Supplement to bulletin No. 86—"Panhandle Feeds for Beef Production," by Prof. F. R. Marshall and Mr. J. J. Edgerton. A report of an experiment conducted by the Texas Experiment Station in co-operation with the X I T Ranch at Channing, Texas. This experiment was made to obtain information as to the value of Milo Maize and Kaffir Corn as the basis of rations for fattening cattle, and also to test the practicability of grain feeding steers at that distance from a general market.

No. 87, 10,000 copies—"San Jose Scale," by A. F. Conradi, Entomo-



logical Section. This bulletin gives the following valuable information, to wit: Description of Scale, Experiments in Texas, Food Plants, Fumigation, How to detect Scale, How the Scale spreads, Life History and Remedies.

No. 88—"Grapes," by Prof T. V. Munson, of Denison, Texas. This bulletin treats of the longevity of certain varieties, their resistance to diseases, etc., comprising the results of twenty years of experiments.

Circular No. 10, 25,000 copies—"Spray Calendar," by A. F. Conradi, Entomological Section. This circular, or Spray Calendar, gives formulas and general directions for preparing and using insecticides.

No. 89, 10,000 copies—"Insects of the Garden," by A. F. Conradi, with a chapter on the "Melon Louse and other Aphids," by C. E. Sanborn. This bulletin gives a description and brief history of a number of destructive garden insect pests with remedies for same.

Press Bulletin—"The Composition Of Salt Sold In Texas," by G. S. Fraps, Chemical Section. It gives comparative value of Texas and Michigan salt. Summary—Texas salt is equal in chemical composition to Michigan salt. The Michigan salt has a coarser grain.

Press Bulletin—"Feed Control in 1905-06," by J. W. Carson, Vice-Director. A brief outline of bulletin No. 90.

Press Bulletin—"Food Adulteration in Texas," by G. S. Fraps. A brief press notice of bulletin No. 91.

No. 90, 30,000 copies—"Feed Control in 1905-06," by G. S. Fraps, Chemist, and J. W. Carson, Vice-Director. This bulletin describes the administration and enforcement of the Texas Feed Law and gives much valuable information concerning feed stuffs sold in Texas.

No. 91, 15,000 copies—"Food Adulteration in Texas," by G. S. Fraps, Chemical Section. This bulletin discusses the subject of food adulteration, the Texas Food Laws, the National Pure Food and Drug Act, and the extent and character of adulteration as found in a number of samples collected in representative Texas cities and subjected to analysis.

No. 92, 30,000 copies—"A Test of the Producing Power of Some Texas Seed Corn," by Mr. W. A. Price, under the direction of Professor R. L. Bennett, Cotton Specialist. This bulletin gives results of a test of the relative yielding power of corn from the different parts of the State and of ears from the same grower.

#### SOME WORK UNDER WAY NOT REFERRED TO IN DIRECTOR CRAIG'S REPORT.

Determining the value of winter and spring oats for yield of hay and resistance to cold and rust as preliminary to selection of such strains, by Professor Bennett and Mr. Price.

Testing Kaffirs, Milo Maize, and Sorghums for forage and grain in semi-dry districts, by Professor Bennett and Mr. Conner.

Testing Citrus fruits at Beeville Station, by Professor Kyle and Superintendent Waschka. Cotton and corn experiments at Beeville Station.

A study of the maximum and minimum temperatures requisite to kill fresh cotton seed both in the dry and wet state, by Dr. O. M. Ball.

A study of the Sweet Potato Borer, by the Entomological Section.



RESEARCH AND INVESTIGATION WORK PLANNED—ADAMS FUND—UNITED STATES GOVERNMENT APPROPRIATION.

Entomological Section, A. F. Conradi. 1. Investigations of Plum Curculio on plum and peach in Texas. 2. Investigations of Southern Grain Louse.

Horticultural Section, E. J. Kyle. 1. Improving existing, and originating new varieties of blackberries and dewberries.

Chemical Section, G. S. Fraps. 1. Digestion Experiments—Studies of the digestibility of some Texas feeding stuffs in co-operation with the Animal Husbandry Section. 2. Soil Studies—Investigations into the fundamental properties of soils, particularly in regard to the phosphoric acid, potash and humus of the soil and its nitrifying and other biological properties. This work will be accompanied by pot experiments. 3. Composition of Feeding Stuffs—Studies of the primary proximate constituents of feeding stuffs.

Botany and Mycology Section, O. M. Ball. 1. Investigation of the Tallow Weed with the object of improving and selecting this plant and of studying its nature so as to extend its usefulness as a forage plant. 2. Further work with Nitrogen Bacteria. 3. Investigation of Economic Fungus Diseases.

Veterinary Section, Dr. M. Francis. 1. A study of the internal use of Beaumont oil on cattle, with a view of testing its value to destroy the stomach and bowel worms of calves (*Strongylus contortus*, and *Strongylus ostertogi*). This trouble is a serious matter in those counties near the Gulf of Mexico.

Agricultural Section, Professor Bennett and Mr. Price. 1. To breed earlier and more productive corn and oats and to test the producing power of corn grown in Texas.

Animal Husbandry Section, Professor Marshall. 1. Testing digestibility of Kaffir Corn, Kaffir Corn Fodder, Milo Maize, Milo Maize Fodder, Black Strap Molasses, Sorghum hay and other feeds in co-operation with chemical section.

2. Feeding Experiments—To study the returns from actual feeding of the materials the digestibility of which is under investigation.

Respectfully submitted,

J. W. CARSON,  
Vice-Director.

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REPORT OF FEED CONTROL DIVISION.

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COLLEGE STATION, TEXAS, December 1, 1906.

*Dr. H. H. Harrington, President Agricultural and Mechanical College,  
College Station, Texas:*

DEAR SIR: I have the honor to submit the following report of the Feed Control division of the Texas Agricultural Experiment Stations, covering the period from its organization, June 15, 1905, up to September 30, 1906.

The law passed by the Legislature at the session, 1904-05, providing

for regulating the sale of concentrated commercial feeding stuffs went into effect on July 14, 1905. At that time Professor J. A. Craig was the Director of Experiment Stations, and organized the division of Feed Control. Mr. B. C. Pittuck was appointed State Feed Inspector, and given general management of the work, under the supervision of the director. Such analytical work as the law requires is performed by the Department of Chemistry of the Agricultural and Mechanical College, and Dr. G. S. Fraps, head of the chemical department, and State Chemist, assists in the preparation of bulletins that are required by the law to be issued from time to time.

Three to four deputy inspectors have been employed most of the time. Three of these men travel over the State visiting mills and retail stores. At mills, at least once a year, they take samples for analysis by the Station Chemist. In retail stores, these inspectors take samples of feeding stuffs manufactured out of the State, and also make investigations as to weights of sacks or other packages of feeding stuffs. A bookkeeper who is also a stenographer, and one deputy inspector to assist the director, constitute the office force.

Professor J. A. Craig resigned as Director of Experiment Stations on July 1, 1906. Mr. B. C. Pittuck resigned as State Feed Inspector on July 31, 1906. The undersigned was appointed by the honorable Board of Directors of the College as Vice-Director of Experiment Stations August 1, 1906, and by virtue of that office assumed the conduct of the State Feed Control work.

#### WORK OF FEED CONTROL DIVISION—1905-06.

The law creates a fund to meet the expenses of executing its provisions by imposing a tax of 20 cents per ton upon those feeding stuffs the sale of which is regulated. Tags bearing certificates that this tax has been paid are required to be attached to packages of concentrated feeding stuffs exposed for sale. These tags are sold at such prices (according to weight of packages they are to be attached to) as will make the amount of the tax, or 20 cents per ton, and by the sale of these tags, the tax is collected. I deem this brief explanation necessary to an understanding by those not conversant with the methods of certain statements that follow.

The financial statement appended hereto shows that up to September 30, 1906, \$101,779.17 had been received by the office as taxes. This shows that during that period taxes under this law were paid on 508,895 tons, 1700 pounds of feed stuffs.

From the establishment of the Feed Control up to September 30, 1906, seven hundred and twenty-five manufacturers and importers of feeding stuffs had complied with the requirements of the law by filing registration papers. Six hundred and six of these are Texas firms or individuals, while one hundred and nineteen are located out of the State. In the list of compliances, aside from those in Texas, the following States and countries are represented: Louisiana, Kansas, Missouri, Oklahoma, Pennsylvania, Nebraska, Illinois, Colorado, and the Republic of Mexico.

A complete file is kept of letters written and received, excepting no-

tices of shipment of tags, sent by postal card. The record shows that during the first fifteen months of the existence of the division, four thousand, eight hundred and three letters were written.

FEED CONTROL BULLETIN.

"Feed Control in 1905-06" is the title of a bulletin, manuscript of which has been in the hands of the State's printing contractor for some time. This bulletin contains much information of value to buyers of feed stuffs, and to millers. Some needed amendments to the law are also suggested. In addition to this, a press bulletin has been printed and mailed to the newspapers of the State.

From reports of inspectors on the road and from letters received at this office, it is apparent that the Feeding Stuffs law is heartily supported by a large majority of the manufacturers of the State, including practically all those who desire to give full value for the money they receive for their products. Retail dealers and purchasers of feed stuffs are coming to understand the protection that is afforded them by the law, and regard it with the greatest favor, and it is universally remarked that the quality of feeding stuffs on the Texas market has been greatly improved since the law went into effect.

I append a financial report, and a report from Dr. G. S. Fraps, State Chemist.

Respectfully submitted,  
J. W. CARSON,  
Vice-Director.

DEPARTMENT OF FEED CONTROL—FINANCIAL  
STATEMENT.

RECEIPTS AND DISBURSEMENTS, JUNE 15, 1905, TO SEPTEMBER 30, 1906.

Cash received through sale of inspection tax tags.....	\$101,628	15
Cash received on contraband sales .....	151	02
Total .....	\$101,779	17
Expense of enforcing the law .....	\$ 27,582	54
Paid for individual analyses .....	117	00
Refund .....	9	00
By Balance .....	74,070	63
Total .	\$101,779	17

EXPENSE OF ENFORCING THE LAW.

Tags (9,932,000) .....	\$ 5,883	68
Freight .....	457	63
Express .....	77	91

Telegraph and telephone .....	140 37
Stationery .....	16 50
Stamps (postage) .....	80 00
Stamped envelopes .....	299 20
Salaries .....	8,252 24
Traveling expenses .....	3,904 40
Stenographic work (extra) .....	28 25
Labor .....	888 69
Office Supplies .....	716 67
Official Analyses .....	6,837 00
Total .....	\$27,582 54

J. W. CARSON,  
Vice-Director.

## REPORT OF STATE CHEMIST.

COLLEGE STATION, TEXAS, December 5, 1906.

*Mr. J. W. Carson, College, Texas.*

DEAR SIR: In accordance with your request I submit the following report of the work of the Chemical Department of the Feed Control from July 1, 1905, to September 30, 1906:

The chemical work was not begun until September 1. At that time a considerable number of samples had accumulated in the hands of the Director of the Feed Control. A considerable expenditure of money was necessary to secure the necessary equipment and apparatus for the analytical work. Some of the supplies needed in the prosecution of this work are quite expensive, particularly the anhydrous alcohol-free ether, which is required in considerable quantities for the fat determinations. We import this from Germany, but even then it is quite expensive.

The total number of samples registered September 30 was 2344 and the total number of analyses completed and reported to that date was 2279. The entire time of two chemists in addition to a portion of my own time was required, as well as the services of the janitor and considerable student labor for the purpose of grinding samples. We are now in position to carry on this work thoroughly and rapidly.

Very respectfully,

(Signed)

G. S. FRAPS.

## REPORT OF THE DEPARTMENT OF FARMERS' INSTITUTES.

*Dr. H. H. Harrington, President Agricultural and Mechanical College,  
College Station, Texas.*

SIR: I respectfully submit the following report of the Department of Farmers' Institutes:

In the beginning of our institute work in Texas, meetings were held



by the appointment of the Director without invitation from the communities in which they were held. This system of missionary work was necessary in the beginning to inform the farmers of the kind and character of the work. Enough of this kind of work has been done. Now, the citizens of a community should manifest an interest in the work by requesting an institute to be held in their community. A bulletin giving names of speakers and the topics to be discussed should be sent to leading farmers throughout the State in order that they may, when they desire an institute, make a selection of topics and speakers. I recommend that an earnest effort be made to secure ample and adequate appropriation for Farmers' Institute work from the next Legislature. Much good can be accomplished in this work, not only by holding public meetings, but by getting in close touch with the rural schools, encouraging and assisting them in the establishment of school gardens and demonstration farms connected with the schools, reading courses in agriculture and community demonstration farms for the instruction of the adult farmers.

The United States Census Report for 1900 shows that Texas contains 241,889 farms. From the rapid agricultural growth and development of the State since 1900 it would be safe and conservative to estimate that there are now four hundred thousand farms in Texas. An appropriation of \$10,000 annually for the support and maintenance of Farmers' Institutes means only two and one-half cents for each *Texas farm*.

For comparison and to show amount of money appropriated annually by other States for institute work, I submit the following:

ANNUAL FARMERS' INSTITUTE APPROPRIATIONS, 1904-05.

Illinois .....	\$17,257 90
Indiana .....	10,000 00
Minnesota .....	18,000 00
Michigan .....	9,300 00
Ohio .....	19,598 68
Wisconsin .....	12,000 00
New York .....	20,000 00
Pennsylvania .....	20,000 00
Iowa .....	7,425 00
Vermont .....	5,000 00
Virginia .....	5,000 00
Colorado .....	8,934 00
Texas, only .....	2,600 00

If Texas intends to keep pace with other States in the development of her agricultural resources she must spend more money in disseminating agricultural knowledge and information to her adult farmers, her wealth producers. I do not believe the State could make a better investment than the appropriation of \$10,000 annually for the support of Farmers' Institutes.

Texas being essentially an agricultural State, occupying an immense area, representing different climatic conditions and many kinds of soil, requires much study and investigation work, and many demonstrations for the enlightenment of her farming population.

Much valuable work is being done by the Experiment Stations. In addition to this, community demonstration farms should be established under the supervision of the Institute Director. Each county should have an organized Farmers' Institute and each county institute should have a demonstration farm. From the demonstrations conducted on these farms many valuable lessons would be taught and much good information gained.

Considering the great benefit to be derived from the demonstration farms, and from the thorough discussion of scientific and economic agricultural questions by trained scientific and practical men, the State should be liberal in appropriating money for this purpose.

The Experiment Stations prove by careful and systematic investigation and research certain scientific and economic truths. The results of these experiments are printed in bulletin form and distributed, upon application, to the farmers of the State. Supplementary to these published reports or bulletins and for the better understanding of them, meetings or institutes are held at which the work reported in the bulletins is discussed by the author or by some one thoroughly familiar with the details of the experiment. In this particular, the institutes aid greatly in the correct interpretation and practical application of the results of the experimental work done at the Stations.

The farmers greatly appreciate the institute work, but unfortunately, on account of a lack of funds for conducting this work, this department has not done a great deal of institute work. Especially is this the case the past year.

#### SUMMARY OF WORK DONE BY THE DEPARTMENT OF FARMERS' INSTITUTES, 1904-05.

Number of one day institutes .....	104
Number of two day institutes .....	6
Total institutes .....	110
Total number of sessions .....	146
Total attendance .....	8500
Total number of days of institutes held during the year.....	116
State appropriation, including the salary of the Director.....	\$2,600 00

#### TOPICS DISCUSSED.

Hogs and Forage Crops; Feeding for Beef; Care and Management of Sheep; Dairy Farming; Feeding for Milk; Cotton, Culture and Breeding; Corn, Culture and Breeding; Rice Culture; Peach Growing and Management of Orchards; Truck Crops, Fruits, Selection for Home Orchard; Apples, Selection of Varieties; Fertilizers; Care and Management of Soils; Irrigation; Onion Growing; Growing and Marketing Bunch Crops. Forage Plants—Alfalfa, Sorghum, Milo Maize and Kaffir Corn. Insect Pests—The Bool Weevil; Insects Injurious to Truck Crops. Co-operative demonstration work; Teaching Agriculture; Agriculture in the Public Schools, and other topics of local interest.

## FARMERS' INSTITUTE LECTURERS.

The College and Station Staff assisted in the institute work, also practical farmers were employed to give lectures, and the industrial agents of railroads gave very material assistance, both by making talks and arranging for meetings.

## INSTITUTE WORK—1905-06.

The Legislature made no special appropriation for the support of Farmers' Institute work for the two years beginning September 1, 1905, and ending August 31, 1907.

The President of the College, Dr. David F. Houston, and the Director of Institutes, by consent of the Board of Directors, made arrangements with Dr. S. A. Knapp, Special Agent of the United States Government, in charge of Co-operative Demonstration Farm Work in Texas, by which arrangement the College was enabled to do a small amount of institute work. \$45 per month, part salary of the Director, was all the money available for Farmers' Institutes. The Director, by agreement with Dr. S. A. Knapp, was to have charge of twenty or more demonstration farms.

## INSTITUTES HELD IN 1905-06.

Number of one day institutes .....	25
Number of two day institutes .....	2
Total institutes .....	27
Total number of sessions .....	35
Total attendance .....	4500
Total number of days of institutes held during the year .....	29

In addition to the institute meetings I addressed quite a number of farmers' gatherings.

## SPECIAL DEMONSTRATION FARMS.

In the prosecution of my work under Dr. Knapp, in looking after the details of sixteen separate farms of from ten to twenty acres each, most of my time has been employed. I also have under my supervision a large number of farmers co-operating with the department who are using the methods employed by the special farmers, but who receive instructions from and report to the general office.

I have established and have under my supervision, demonstration farms at the following places: Hempstead, Giddings, Elgin, Timpson, Bobo Station, Center, San Augustine, Columbus, Weimar, Seguin, Hondo, Liberty, Ganado and Bedias.

To the farmers in charge of these special farms the Government has furnished the best cotton and corn seed obtainable. Briefly, the purpose of the work is to encourage the farmers to be more thorough in the preparation and cultivation of the soil; to use the most improved seed

for all crops; to use both manure and commercial fertilizers where needed to build up and improve the soil, and to increase its productive capacity by a system of rotation of crops and the planting of cow peas and other legumes. Careful seed selection from the field will be carried on for the purpose of improving the seed from year to year. This will enable other farmers to obtain good, well-bred, improved seed for planting from these special farms. The crops grown this season on the demonstration farms only include the staple crops, corn and cotton, and in the truck sections, potatoes. Careful notes from time to time are taken on the condition of these growing crops. At the end of the season the results of the work will be published and sent out to the farmers. At the Institute meetings attention is called to what is being done in the community of these special farms, and the farmers are invited to visit the farms and inspect the work. This, I believe, will greatly increase the interest in Institute meetings.

In closing this report allow me to express my regrets that this Department was not properly provided for, and in consequence a very few institutes have been held. I consider Farmers' Institute work of great importance to the State and I believe that it should be supported by a special appropriation of not less than \$10,000 per annum.

I thank you for your interest and encouragement in the Institute work.

Respectfully submitted,  
J. W. CARSON,  
Director Farmers' Institutes.

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## REPORT OF FERTILIZER CONTROL.

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COLLEGE STATION, TEXAS, December 17, 1906.

*Dr. H. H. Harrington, President Agricultural and Mechanical College,  
College Station, Texas.*

DEAR SIR: In accordance with your request I herewith submit a report of the work of the Fertilizer Control for the two years, September 1, 1904, to September 1, 1906.

The samples received from the manufacturers were analyzed as usual. An inspection of the goods in the hands of the dealers was made in the spring of 1904 and again in 1905, representative samples being taken for analysis. Bulletin No. 85 of the Texas Experiment Station contains the analyses of fertilizers made during the season of 1905-1906, with an account of the working of the law and other information.

The sale of fertilizer in Texas is comparatively small, being only 13,500 tons for the past season. The amount sold is increasing slowly.

All parties concerned, manufacturers, dealers and consumers, appear to appreciate the importance of the State control of fertilizers.

Very respectfully,  
G. S. FRAPS.



# REPORT OF DEPARTMENT OF ENTOMOLOGY.

*Dr. H. H. Harrington, President Agricultural and Mechanical College of Texas.*

DEAR SIR: I beg to submit the following report of the work of the Department of Entomology and also of State Entomologist, since May 15, 1905, together with suggestions for future work proposed, and recommendations for appropriations for equipment and maintenance.

Since the resignation of Professor Sanderson (October 1, 1904, to September 1, 1905), there was no official appointment made to fill the vacancy, and the writer merely assumed the duties of acting head of the Department. For that reason many problems were not undertaken that should have received attention. Moreover, the funds were so low that nothing pretentious could be attempted, and as the Department staff was almost entirely depleted the attention of the writer was mainly given to keeping the various branches of the Department in good condition, pending the action of the Board of Directors. During the session of 1904-1905 the Department was not represented on the Faculty. Although three hours of economic entomology were scheduled for the winter term and the course had been worked out, the Faculty provided for three hours in systematic entomology in the fall term. The entire curriculum, therefore, had to be suddenly changed, and the writer being alone, the work was unavoidably handicapped. Since the beginning of your official duties as President of the College, when the writer was officially placed in charge of the Department and the vacant positions on the office staff satisfactorily filled, the entire Department has been running intact.

During the spring term no class-room work is scheduled in the catalogue. Seven hours' instruction per week is given to two elective students in Systematic and Economic Entomology. While half of this work is done by the writer, the subject of plant lice (*Aphididae*) is taught by Mr. C. E. Sanborn, United States Co-operative Expert on this subject. During the spring and summer the duties of the office of State Entomologist require so much attention that it would be impossible to do justice to a class-room schedule with the present Department force, but the emergency was met by the voluntary services of Mr. Sanborn, who makes himself part and parcel of the Department and assists wherever there is need and when time allows.

The investigations and experiments during the past session and now in progress may be outlined as follows:

Cotton Insects—The Boll Weevil.

Staple Crops—Insects affecting stored grain.

Orchard Pests—San Jose Scale washes.

Truck Pests—Sweet potato borer, and melon louse.

Citrus Pests—Citrus white fly.

Miscellaneous investigations.

Although considerable progress has been made, these investigations will be continued another season. A thorough study has been made of the Rice Weevil and the Angoumois Grain Moth, the two worst granary

pests, which destroy upwards of 50 per cent of our corn crops some seasons. Several important results have been obtained, some of which have already been published in the State press, while all the preliminary results were presented at the meeting of the 'Texas Grain Dealers' Association at Fort Worth on May 24, 1906.

The progress of the San Jose Scale has been watched with most scrupulous care during the past season, all records having been carefully filed and distribution map showing its occurrence kept up to date. Texas is now face to face with this problem and the question is how to determine the most economic manner in which it can be most effectively controlled. A summary of the preliminary results has already been published in the principal newspapers of the State. Summer washes are now being experimented with, and these will be followed by a vigorous winter campaign.

It is needless to emphasize the importance of the necessity for investigating the melon louse and the sweet potato borer. These destructive truck pests are ruining the sweet potato and melon crops in South Texas, and the investigations will be continued.

Enterprising citizens of South Texas are developing the citrus industry. The most important citrus pests are the Morelos orange maggot (*Trypeta ludens*), the citrus white fly (*Aleyrodes citri*), and the purple scale (*Mytilaspis citricola*). The black scale has not entered the State as far as we know, but the citrus white fly has established itself in the coast country about Galveston. The purple scale is occurring in an active condition in the State, and it is constantly shipped in on fruit to the Texas markets. The Morelos orange maggot has been present only to be crippled in its progress by the "norther" that swept over Texas on the morning of February 12, 1905. We are by no means through with it, and the worst is yet to come. Investigations will be continued on these pests as far as the limited funds at our disposal will allow.

Under our title, "Miscellaneous Investigations," are included those pests that come to our attention through the daily mails.

The important insectary work consists in breeding sweet potato borers and plant lice. Among the last mentioned are the cotton louse and the Southern grain louse, the latter having destroyed the wheat crop of North Texas during the spring of 1901. That this loss has not been repeated in that section is to a great extent due to the abundance of parasitic and predaceous insects. These important insect allies are made temporarily inefficient by two natural causes, namely, extremely cold winters and cold, moist springs. Very frequently a serious insect outbreak in early spring is due to an insufficient number of these parasitic and predaceous insects. When they are destroyed by natural causes they must be supplied through artificial channels. Experiments thus far made indicate that they can be bred in profusion, provided we have the equipment to enable us to maintain them for systematic distribution. For that purpose we have now under construction a winter breeding room, also a cold storage cellar under the insectary. During next winter an attempt will be made to breed as great a number of these insects as each breeding compartment will allow. As fast as these emerge they are to be placed in artificial hibernation in the cold storage room until needed in spring, when by a rapid system of parasite mailing cases they can be transported to infested territory for duty.

As long as this Department is not enabled to carry on demonstration work over the State, it must necessarily fall short of its most efficient service to the people. We should have an appropriation sufficient to enable us to visit a community, prepare the remedy and apply it. This work is done in other States with excellent results.

At present we are co-operating with several hundred farmers over the State known as "special correspondents." At our request these have furnished us with maps of their farms showing us what crops are growing, and then keep us informed every month of all farm operations and contemplated crop rotations. Cut worms, wire worms, and white grubs, especially the latter, can be controlled only by a judicious rotation of farm crops. With this system of correspondence and co-operation we are able to give them timely warning against any procedure that would be favorable to the development of these pests.

The co-operative arrangements with the United States Bureau of Entomology are highly satisfactory. Mr. Sanborn is stationed at this Department and is paid by the United States Government. He is rapidly growing in his work and promises to become one of the foremost students of *Aphididae*. He is strictly in sympathy with this Department, and I recommend that the co-operation be continued as long as possible.

The spare moments of the members of the Department Staff are utilized in preparing life area maps of the economic insects of Texas as well as a list of Texas insects. Very little work of this kind has been heretofore done, and when completed will be a valuable contribution to economic entomology and greatly assist in facilitating insect control in the State.

During the past season this office received over 4000 letters from citizens of Texas. These letters often required more than one reply, which necessitates the handling of from 10 to 12,000 letters in the course of a year. Many of the inquiries can not be answered without the necessity of looking up considerable references. This consumes considerable time on the part of the Entomologist. With the rapidly growing collections and the excellent card system of filing now in use in this office the identification of specimens can be speedily accomplished. This Department also sends out hundreds of typewritten circular letters to sections of Texas where particular insects are injurious or threaten to become so.

The following bulletins have been issued from this Department: Circular No. 10, which gives a classified list of the various sprays most effective against insect pests, with directions for their preparation. These sprays are also arranged according to the plant to which they are to be applied.

Bulletin No. 87, on the San Jose Scale, has been issued, and gives a history of the pest, how to identify it, and the results of the experimental work to the close of last winter's observations.

Bulletin No. 89, "Insects of the Garden," treats of the most injurious garden insects of Texas. It gives the distribution of the insects during the last three years, as well as the methods found most effective by us in controlling them. To this bulletin is attached a chapter on the Melon Aphis by Mr. C. E. Sanborn, wherein he gives the preliminary results of his investigations on this pest.

There is sufficient material on hand now to publish a bulletin on the



sweet potato borer. The manuscript has been prepared, and as soon as the photographs are completed will be given to the Experiment Station for publication. This bulletin does not represent a completion of investigations on this insect. Part of the work is in progress and will require another season before detailed results can be given. The bulletin contains the life history of the insect, which has been carefully worked out, its food plants, as well as the general habits of the pest. A careful study has been made of the territory over which it is now distributed as well as the territory over which it may become injurious. This is based upon the studies regarding its relation to climate as made by this Department. Being an insect of tropical origin, it is limited by climatic conditions in North Texas.

#### WORK UNDER THE ADAMS FUND.

*Green Bug.*—Since my last report this Department has been enabled to undertake an investigation on the Green Bug with an apportionment from the Adams Fund. The experiments have been arranged and work is now being done. It consists of a study of the life history of the insect, its food plants, migratory habits, and its relation to parasites. Observations will be continued on the effect of rotation of farm crops in checking its destructiveness.

*Plum Curculio on Peach.*—The Plum Curculio, which is so abundantly breeding on native wild plums of Texas as well as on domesticated trees, is transferring to the peach fruit, having already caused considerable damage in several sections of Texas. With a small apportionment from the Adams Fund we have undertaken to investigate the practicability of employing the methods now used against it on plums to eradicate it on peach. The principal experiment is testing the efficiency of arsenate of lead in poisoning them, being practically a repetition of experiments made by Dr. Forbes two years ago on plum trees. No experiment of this kind has ever been performed on peach trees, and it is of the utmost importance that this point be determined, so that the peach growers may be educated to the methods for successfully controlling them before the peach crop has suffered serious loss.

#### APICULTURE.

The apiary is a part of this Department. Owing to the fact that the apiarist was granted a leave of absence during the winter of 1904-1905 and his subsequent resignation December 1, 1905, the work in the experimental apiary was crippled. It was, however, rapidly reorganized on a working basis, is again in first-class condition, with several practical experiments in progress. The entire apiary has been requeened, and all races are again available for experimental work. At present there are twenty-two colonies under the best of management. The plant is the best equipped of any agricultural college or experiment station in the United States both for experimental and educational purposes. The work now in progress may be briefly outlined as follows:



1. Determining whether alfalfa is a profitable honey crop, when not irrigated. This experiment is carried on in co-operation with large alfalfa growers.

2. A study of the most rapid methods of making honey vinegar on a commercial scale to determine whether it is more profitable to manufacture the poorer and cheaper grades of honey into vinegar, or sell the same on the market. It would open a market channel for all marketable honey in Texas now going to waste. These investigations are greatly facilitated by the very courteous assistance rendered by the members of the Department of Chemistry.

3. The test of various styles of hive covers to determine the resistance to heat at different seasons of the year.

4. Testing the correctness or falsity of the theory of inter-communication.

5. Testing cement and tile bottom boards to ascertain their adaptability in comparison with those now in use.

6. Experiments with hives and their manipulations to prevent swarming.

7. A study of the adaptability of races.

8. Methods of queen rearing.

9. Causes of rapid granulation of honey.

10. Management of out-yards.

*Honey Plants.*—The Department's herbarium of Texas honey plants contains upwards of 175 species. Statistical information as to the distribution of these plants has been gathered from all beekeepers whose addresses are in our correspondence files. In connection with our own observations this data is now being rapidly compiled, distribution maps prepared, and a full treatise on the subject is nearing completion. Five circulars have already been published and are available for distribution. During last winter several hundred of the best West Texas honey plants were planted at College with the view of determining, if possible, how such famous honey plants as Huajilla, now confined to sections of West Texas, could be induced to grow in other sections of the State, thus increasing the quality as well as the quantity of Texas honey.

*Foul Brood.*—This office being in charge of the Foul Brood Inspection law, has observed the advance of the disease with great care. Two regular inspectors have been actively engaged in Southwest Texas since last September, while other sections of the State were inspected directly from this Department. The disease exists in several counties of Texas. Over 15,000 colonies were inspected and in several localities the disease was completely eradicated. A full report of the results of the work will soon be ready.

#### IMPROVEMENTS IN THE DEPARTMENT DURING THE PAST SESSION.

It was impossible to improve the equipment of the Department to any great extent owing to the fact that no appropriations were available for that purpose. A number of substantial improvements were made, however, that greatly facilitated the work and efficiency of the Department.

In an efficient entomological office the nature of the work is such

that many details are necessary. The writer has no doubt that the system now in use is not surpassed by any entomological office. Every species of insect that comes to our attention is recorded according to food plant, distribution, nature of injury, occurrence, and such other information as may have been obtained. The system is based on a card catalogue so that all files are elastic, admitting records under their proper headings at any moment without loss of time. The cross-reference is such that a species may be approached through food plant, accession number, locality, technical name, common name, name of sender or collector, and the collections. When approached through any of these channels, a second cross-reference brings the investigator at once in touch with all systematic and economic literature bearing on the subject. The index is such that among upwards of 20,000 reference cards now in the files less than six cards need be handled to locate the reference. The invaluable services of this system are at once apparent. Receiving at this office from 15 to 20 letters daily, each containing inquiries about insects or the specimens themselves, with this system and well-arranged collections, identification is rapid, and all references and past records located in a moment so that often reply can be sent by return mail. That this promptness is appreciated by the public is apparent, as oftentimes we are requested to reply by telegram or long distance 'phone. Furthermore, it is not sufficient in an office of this kind to know the name of an insect and the nature of its injury, we must go farther than that. All these records above described are of the greatest importance for determining the laws of elevation, temperature and moisture that govern injurious insects as well as their predaceous and parasitic enemies. Before we understand those laws the subject of entomology can hardly be called a science. The office has therefore been equipped with card index sections sufficient to accommodate every note and reference.

A first-class stenographer's desk was added for the use of the clerk who is in charge of all records as well as all correspondence files in the Department.

The Department has never had an insectary. The emergency was met as well as possible by constructing on the experimental plats screen houses, and by building a 33x5 addition to the beehouse, which will be completed this fall, and will then give us a space for winter work 33x14. Where it was necessary in the past to discontinue breeding work upon the approach of winter, under the arrangement above indicated this can now be continued.

The collections have completely outgrown all cabinet space in the Department. Two thousand species representing upwards of 20,000 specimens are already mounted in 80 improved Cornell drawers. The student assistant, Mr. E. Scholl, had the lumber cut by a New Braunfels carpenter, and a new cabinet of 48 drawers is nearing completion. This will accommodate upwards of 8000 specimens. Besides these, upwards of 100,000 are stacked in hermetically sealed tin boxes awaiting cabinet space. Through student labor the Department was equipped with a series of best improved breeding cages. An incubator has been added that will enable us to do technical foul brood work.

During the past year our efforts to improve the library have been constant. Although the funds are very small, we have been exchanging

old duplicates of the Department together with copies from the writer's private library for other publications that were not in our library. In this manner several hundred pamphlets were added, many being of rare value as the editions are out of print. The two-volume text-book of Zoology by Parker & Haswell was purchased.

On account of the distance from the Department at the Main Building to the experimental plats at the south end of the campus, the work has been considerably handicapped. This difficulty has been overcome by the installation of a telephone system between the office, beehouse, insectary and the Entomologist's residence.

#### RECOMMENDATIONS FOR NEXT YEAR'S WORK.

The work outlined above will be continued. It represents the most important phases in the economic entomology of Texas at this time. It can not successfully be carried on with the appropriations made for entomological work. It is impossible in this large State to study the grain louse of the wheat belt successfully from this office. Our experimental work against the San Jose Scale in the peach belt is also carried on under great difficulties. Some of the minor pests can only be studied in the locality where they occur. This phase of the problem could be met as follows: A field entomologist should be stationed at the Troupe experiment station or at Terrell. I have no doubt that room accommodations would be furnished at either place, and we would thus be brought into immediate contact with these pests. Such an assistant could superintend the field experiments and could be of immediate service in controlling wheat pests and such other insects that can not be successfully controlled directly from this office. It would be of incalculable value to the grain, fruit and truck growers, who would, I have no doubt, heartily endorse such action.

A similar proposition presents itself in South Texas. The sweet potato borer must be studied in the field. Our experiments at College are not altogether applicable for the growers in the Coast country. The melon louse does its greatest injury in South Texas, and the citrus belt is also within that section. I recommend that another field assistant be stationed at Beeville to study these pests in the field. Such assistants could be secured for \$800 to \$1000 a year each, and the necessary equipment furnished from this office. Unless this is done we shall not be able to handle the South Texas and North Texas problems any better than has been the case heretofore. Frankly speaking, we have done nothing for the wheat farmer to give him hope that there may not be a recurrence of the destructive outbreak of 1901, and as long as we are without an entomologist in the field it may be considered out of the question to take up the problem.

The vacancy created by the resignation of Mr. L. H. Scholl was filled by the appointment of Mr. C. E. Bartholomew,\* a graduate of Iowa State College. He assumed his duties on February 7, 1906, and during the winter term gave instruction to a class in systematic entomology, devoting to it three lectures and one practice period per week. He also

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\*Resigned October 14, 1906.



had charge of an elective student in systematic work, giving three lectures and one practice period a week. He has been in charge of the identification of specimens and has been carrying on a fumigation experiment to determine the destructibility of carbon bisulphide upon the germination of Texas seed corn. Most of his time has been devoted to the study of the sweet potato borer. He is also in charge of the investigations of the fruit blister beetle which is threatening the fruit industry in Clay County. I recommend that a salary of \$1000 be, as heretofore, provided for the position of Assistant State Entomologist.

This office at present handles at least as heavy a correspondence as any other similar office in America, with the exception of the Bureau of Entomology at Washington. We have been having the services of the clerk and stenographer for five forenoons and one whole day each week, making only three and a half days in all. Too much credit can not be given the present clerk and stenographer for the promptness with which the correspondence is handled and the office work carried on. He has taken up his branch of work and developed it. He has quite a good command of English which is of exceptional advantage in relieving the Entomologist of considerable responsibility. The records being in his charge are kept in such excellent shape and with such scrupulous accuracy, that no member of the Department Staff need ever lose time in looking up any required data. He has taken up the foul brood work with the same energy. He assumes the responsibility for the Department in the absence of the Entomologist. I recommend, therefore, that his salary be advanced to \$80 per month beginning with the next financial year.

During the next session there will be the heaviest class schedule in the history of the Department. Mr. Bartholomew will be needed in experimental work during the fall and winter; at the same time there is need for a large amount of preparatory work for instruction. As the office of State Entomologist is the chief function of the Department, receiving its appropriations from that source, we can not conscientiously sacrifice this work to a heavy class-room schedule. Unless there is an instructor appointed the classes must necessarily be handicapped.

Every room belonging to this Department is over-crowded, so that we are building sheds on the experimental plats to accommodate the ruder instruments, and the Department Staff has been wondering where to meet these classes with our schedule in the catalogue. It has, therefore, been necessary to convert the breeding room into a temporary class-room and student's laboratory.

We have hundreds of requests in our files from sections over-run by insect pests and we are asked to make a personal visit to the locality and render assistance. This has been for the most part impossible, because there was no funds for that work, and on account of the fact that it is necessary each time such a request comes in to write for trip passes over railroads, it is very often impossible to make a trip in time to be of any material service. This is, therefore, a very discouraging feature that hampers the work of the Department, and I would earnestly urge that an appropriation sufficient to meet such emergencies will be made.

The spray machinery and insecticide laboratory is very poorly equipped at the present time. An additional shed has been constructed to accommodate the wagon and farm tools, while the entire barn has



been transformed into a modern spray machine and insecticide laboratory. As we have no water connections at the insectary and beehouse at present, it is not only very inconvenient in carrying on breeding cage work, but there should be water connection in case of accidental outbreaks of fire. For the same reason the work in the evening should not be done by lamplight, but the electric line should be extended so that we can use electric lights.

In the following estimates we ought not to be influenced by the fact that heretofore meagre appropriations have been thus far customary. Texas has never had a sufficient appropriation to effectively combat its many insect pests, and the problem grows more urgent each year. It is surprising that the largest State in the Union should have the smallest entomological appropriation. Our neighbor, Louisiana, appropriates \$25,000 a year, employing five entomologists and one clerk; Georgia, \$10,000, employing three entomologists, one pathologist and one clerk; New York, \$25,000, besides supporting the State Museum and two of the best experiment stations in the world; Ohio, \$15,000, besides the Department at the Ohio State University, the State Experiment Station at Wooster, and two sub-stations. Massachusetts, after having spent over \$1,000,000 in attempting to control the Gypsy Moth, has again appropriated \$150,000 to continue the work, besides \$88,000 apportioned them by the United States Department of Agriculture. California appropriates to many of her counties over five times the amount of money in a single year that Texas appropriates for all entomological work in the State. Riverside County, California, for instance, receives an annual appropriation of \$4000, while the State of Texas is expected to handle its tremendous entomological problems with an appropriation of \$750 a year. The postage and stationery alone consumes nearly one-half of this amount. In enumerating the appropriations made by other States it is discouraging to find Texas at the bottom of the list, and this is especially strange when we consider the vast extent of the State and its diverse agricultural interests.

In making the following estimates for the next two years, it might perhaps be well to state that the figures given are conservative and much below that allowed by some other States much smaller than Texas:

	1st Year	2d Year
1. Insectary .....	\$ 1,000 00	\$ 1,000 00
2. Salaries.		
Entomologist .....	1,500 00	1,500 00
Assistant State Entomologist .....	1,000 00	1,000 00
Two field assistants .....	2,000 00	2,000 00
Assistant Apiarist .....	800 00	800 00
Stenographer and Clerk .....	960 00	960 00
3. Library .....	200 00	200 00
4. Insect collections .....	400 00	400 00
5. Spraying and field apparatus .....	500 00	500 00
6. Insecticides and preparations .....	500 00	500 00
7. Travel .....	560 00	560 00
8. Office, including postage and stationery ..	400 00	400 00
9. Apiary .....	500 00	500 00

10. Printing .....	500 00	500 00
11. Field work .....	10,000 00	10,000 00
		<hr/>
Total .....	\$20,820 00	\$20,820 00
Respectfully submitted,		

A. F. CONRADI,  
Acting State Entomologist and Professor of Entomology,  
Entomologist Experiment Station.

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## SUPPLEMENTARY—SPECIAL APPROPRIATION.

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### FOUL BROOD WORK.

The Twenty-ninth General Assembly of Texas appropriated \$800 a year for the execution of the Foul Brood Law. This work was carried on by Mr. E. Scholl, the office deputy; Mr. D. C. Milam, Uvalde, Texas; and Mr. W. Atchley, Beeville, Texas; the two latter as field deputies under the direction of the Entomologist. The work done by these gentlemen has been most highly satisfactory and the fund has been handled most economically, as shown by their reports. It is strongly recommended that the Legislature will be asked to continue this appropriation through another two years, and it is believed that this worst of all bee diseases can be gotten under control. The law has been carried out by the Entomologist, and his rules and regulations have been carefully followed by the deputies. To our knowledge no bees have been shipped into the State of Texas during the last two years except under the direction of the State Entomologist, and all colonies were inspected immediately upon arrival, so as to avoid any possibility of bringing bee diseases into the State. The bee industry of Texas is a very important one and there is a great field open for investigation and for improvement along scientific and technical lines. A reasonable appropriation, like the above amount, economically spent, is therefore only just to the beekeepers of Texas.

Respectfully,  
A. F. CONRADI,  
Foul Brood Inspector.

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## REPORT OF VETERINARY DEPARTMENT.

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COLLEGE STATION, TEXAS, October 16, 1906.

*H. H. Harrington, President, College Station, Texas:*

SIR: I have the honor to submit the following report on the condition and needs of the Veterinary Department:

During the session of 1905-06 our classes consisted of 35 Sophomores, 18 Juniors, and 12 in the Short Course in Agriculture.

In some respects the Department is in excellent condition. I refer especially to our class-rooms and laboratory equipment. I do not know of an agricultural college in the whole country that excels us in these features. Our greatest need is for a suitable building to be used as a veterinary hospital. As you well know, the equipment of this nature at present consists of a number of dilapidated sheds, which are at least half a mile from our office and laboratory and down in a hollow north of the College buildings.

Sick or disabled animals can not be properly taken care of in such quarters, and the surroundings are such as to cause students to become disgusted with veterinary work.

I beg your attention also to my connection with the Experiment Station as its veterinarian. According to the provisions and spirit of the Adams Fund, we will be expected to do some high-class work on animal diseases. Do you think it actually possible to turn out work that will stand the test of time and show the wisdom of the Adams Fund with the equipment now available? I can't see the possibility of it.

As I laid before you a short time ago a communication on this subject I will only briefly restate what I said then. We need a special building for this work, which will contain the following features:

- Five box stalls about 12x12 feet, fitted up in the best manner.

- One large box stall, say 16x16 feet, for violent cases, such as colics and blind staggers.

- One dark stall for eye diseases.

- One stall fitted with steaming apparatus for distemper and respiratory diseases.

- One single stall for swing apparatus.

- One stall for foot soaking.

- Five cattle stalls.

- Five small cement floor stalls for pigs, goats or sheep.

- One mule pen for unbroken stock.

- Three rooms equipped for dogs.

- Two rooms for laboratory animals (rabbits, guinea pigs, rats, pigeons).

An experiment court and crematory for animals with contagious diseases.

We must also have rooms suitable for janitors, students' waiting room, harness room, feed room, medicine room, and rooms for wagons, crates, and miscellaneous junk which accumulates at such places.

You will perhaps recall that the Legislature gave us \$5000 for this purpose four years ago, but that it was vetoed by the Governor among other College items. Since that time I have given the matter considerable study, and it occurs to me that owing to the recent advance in building material that it will require \$10,000 to supply this equipment.

We will require also about \$1000 per year for running expenses, repairs, anatomical material, fencing, etc. This year, for the first time, we are offering a laboratory course in veterinary medicine. The class consists of eighteen men, and it now appears that this will cost about \$5 per man, so this becomes a new burden on our funds.

I can not close this report without saying that whatever success we

may have attained, has been due, in considerable degree, to the cheerful and intelligent assistance rendered by Dr. Marsteller.

Respectfully submitted,  
MARK FRANCIS,  
Professor of Veterinary Science.

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## REPORT OF THE DEPARTMENT OF BOTANY AND MYCOLOGY.

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*Dr. H. H. Harrington, President Agricultural and Mechanical College:*

DEAR SIR: In accordance with your request, I herewith transmit the biennial report of the Department under my charge.

The work of this Department has been of two kinds: teaching and original investigation.

Instruction has been given in plant morphology, physiology and systematic relations to the sophomore and junior agricultural classes and in advanced physiology and nutrition and the diseases of plants to the senior, and consisted of a moderate amount of theoretical with the largest possible amount of practical work in the laboratory. In this way students have been encouraged to learn at first hand the essential facts of plant life. The average number of hours devoted to instruction during the past biennial period has been fifteen and a half per week. During the fall and winter of 1905-06, owing to the death of the professor of languages, nine hours per week in Latin and German were added to this Department. This average of fifteen hours per week does not give a fair idea of the time devoted to instructional work in this Department, since at least an equal number must be added for the collection and preparation of material for class and laboratory work, a task which usually devolves upon an assistant.

The lines of original work have been limited seriously by the small equipment and size of the laboratory. This latter has been thoroughly equipped for student use, but is not yet what is necessary for thorough and accurate scientific investigation. Therefore only such original work has been attempted as could be carried to a reasonably successful conclusion under the existing conditions.

The investigations which have been completed, wholly or in part, are as follows:

An inquiry into the value of the so-called "Nitro-Culture" material widely advertised and sold for the artificial inoculation of legumes. This work extended over the greater part of one year and the results were published as a Bulletin of the Experiment Station, No. 83.

An examination of the quality of alfalfa and clover seeds sold on the markets of the State, and of those sent to this office for inspection. The results of this work, for the year 1905-06, were published as Bulletin No. 81 of the Experiment Station.

An investigation of the extreme temperatures requisite to kill cotton seed, when damp and dry. These results have not yet been published. A large part of this work was done by Mr. Kroulik.

Investigation, so far as possible, of the various plant diseases and iden-



tification of various plants, sent to this laboratory for examination. This work has been particularly exacting and requires a large amount of time and labor. During the year 1905-06 105 specimens of various plants have been received and identified at the request of the senders. Also, in the spring of 1906 alone, thirty-six specimens of diseased plants were examined and remedies recommended. A careful record of the geographic distribution, economic importance, etc., of these diseases has been made.

Since undertaking the examination of seeds, the work has developed very rapidly and widely. During the season of 1905-06 thirty-two samples were inspected and reported upon. During the months of October-December, 1906, sixty samples were analysed. Since the greater part of these inspections were made at the request of the large dealers in seeds, it is safe to state that nearly all the seeds of these kinds now sold in the State have been examined by this Department.

The sums set aside for the maintenance and support of the Department, and for the purchase of equipment have been economically expended. Since these sums have been small, the task of acquiring a satisfactory equipment is being gradually worked out. The urgent need of a greenhouse, where studies of plant diseases and functions may be made under condition that can be known and controlled is a matter to which I beg to call your especial attention. I have been prevented from making such investigations solely on this account. There is no line of work that can be undertaken by this College more directly connected with the interests of the agricultural and horticultural interests of the State than this, and it is imperative that we offer these interests some protection from the inroads of plant diseases, especially since the general public knows nothing whatever as to their nature and causes, nor of the modes of combating them, and are therefore, to a degree, helpless. All of the work of teaching and investigation in the laboratory has been done in one room. The lack of a properly equipped private laboratory prevents accurate and thorough work even more than does the lack of greenhouse facilities.

I recommend that a greenhouse of adequate dimensions be provided. Such may be built for \$3500 or \$4000, and that a suitable room be assigned to the Department for the purposes of a private laboratory. I recommend, further, that the sum for maintenance and support be raised to \$300 per year, and that an additional sum of \$600 be allowed for the purchase of further equipment.

Yours very respectfully,

O. M. BALL,

Professor of Botany and Mycology.

## REPORT OF DEPARTMENT OF CHEMISTRY.

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COLLEGE STATION, TEXAS, October 15, 1906.

*Dr. H. H. Harrington, President Agricultural and Mechanical College,  
College Station, Texas:*

DEAR SIR: In accordance with your request of recent date, I herewith submit the following report for the Chemistry Department:

WORK OF THE DEPARTMENT FOR THE FISCAL YEARS 1905 AND 1906.

The instruction in this Department has been carried on as usual, with a continued increase in the number of students.

In addition to the work of teaching, the chemical work of the Fertilizer Control, of the Feed Control, and of the Experiment Station has also been carried on. This work has now been placed in charge of an Associate Professor, who devotes practically his entire time to it.

The increase in the number of students taking Chemistry rendered it imperative to provide more lockers in the laboratories. About eighty such lockers were, therefore, provided by the subdivision of the lockers already in use. This process of subdivision has now reached its limit, and future increase in the classes in this Department will soon necessitate more laboratory rooms.

Hoods, which were much needed, have been constructed in all the laboratories, but the ventilating system needs to be improved, especially as to its motive power. This improvement is now under way, the gasoline engine being supplanted by an electric motor, which will also be used to furnish compressed air.

The walls of the basement have been covered with shelves, and these have already been nearly filled with samples of feeds and fertilizers submitted for analysis.

A large working table has been constructed in the Assay room for the work of the Experiment Station.

NEEDS OF THE DEPARTMENT FOR THE FISCAL YEARS 1907 AND 1908.

A greenhouse for pot experiments in testing the agricultural value of fertilizers, with reference to the chemical form in which the fertilizing elements are present, is much needed. At present a movable structure, holding sixty pots, is being used.

The course of study should be somewhat modified to meet recent developments in the science and practice of Chemistry. I recommend that a course in Chemical Engineering be established, and that the facilities of the Department, as to laboratory space and equipment, be enlarged accordingly. Modern methods demand that the laboratory work in industrial courses, wherever possible, be conducted on a scale sufficiently large to illustrate all the vital principles involved in the successful operation of commercial establishments. I also recommend that one or more Assistant Professorships be established in this connection.

If the subject of Geology is retained by the Department, additional

facilities for teaching it should be provided. These would include more maps and charts, together with more fossils and mineral specimens, both for laboratory use and for the museum. A separate room is also much needed for the laboratory work in this subject.

Various scientific journals are needed for the Chemical Library in addition to those now received. The journals received for several years past need to be bound.

ESTIMATED EXPENSES OF THE DEPARTMENT FOR THE FISCAL YEARS  
1907 AND 1908.

The running expenses of this Department for College work for the next two years will probably exceed those of the past two years, especially if the course in Chemical Engineering is established. I therefore recommend that \$2500 and fees be appropriated for this purpose.

I recommend that \$4000 or more be appropriated for the further equipment and development of the Department. As indicated in the last biennial report, that portion of the new building now occupied by this Department has been but partially equipped for chemical work, and that, for the most part, along elementary lines.

I recommend that the fee in all laboratory courses in Chemistry be changed from \$1 to \$2 per year. This would, on the average, be less than one-third of the cost of the materials used. The "breakage" bill should not be limited to the \$1 deposited on that account, but should cover the actual cost of the articles broken.

Respectfully,  
J. C. BLAKE,  
Professor of Chemistry.

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REPORT OF DEPARTMENT OF MECHANICAL ENGINEERING.

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COLLEGE STATION, TEXAS, October 31, 1906.

*Dr. H. H. Harrington, President Agricultural and Mechanical College,  
College Station, Texas.*

DEAR SIR: Agreeable to your request, this report of the Mechanical Engineering Department is respectfully submitted:

The inability of the head of the department to secure an immediate release from his previous position made the starting of the work rather irregular, and placed an added burden upon the Professor of Physics and Electrical Engineering, who directed the work for the first three weeks of the year. With the head of the department present the work has settled down to its proper working condition and we may take a general view of the situation.

It has been deemed inexpedient to attempt any very radical change in the work at present; but some changes must come and come very soon if the work of the College is to be representative of good technical school practice.

1. The equipment for wood-working must be increased so that we may have more than merely a carpenter shop. There must be at least a small amount of modern power wood-working machinery and pattern-making equipment.

2. The blacksmith shop, although only recently moved to larger quarters, has proven itself inadequate, so that in the emergency of the much larger freshman class sections, eight new forges were bought and are now being set up. Some minor equipments will be needed for this shop.

3. The most crying need in equipment for underclassmen is the foundry. In previous reports this Department has asked for money to build and equip a foundry, and I should like to emphasize that request.

4. Another side of the work which needs development is the Experimental or Testing Mechanical Laboratory. In the equipment of such a laboratory almost an endless amount of money may be spent to very good advantage for the investigation of problems of interest to the agricultural and manufacturing industries of the State. It is a satisfaction to find some pieces of apparatus here, and it is confidently believed that we can make such use of these as to prove the value and need of more.

With the present equipment and funds on hand, the needs of the Department for the two years, 1907-08 and 1908-09, are estimated as follows:

Year 1907-08—

Maintenance and support .....	\$ 1,000 00
Equipment (chiefly wood shop and testing laboratory) .....	4,000 00
Total .....	\$ 5,000 00

Year 1908-09—

Maintenance and support .....	\$ 1,250 00
Equipment (chiefly foundry and testing laboratory) .....	7,500 00
Total .....	\$ 8,750 00

Total for two years .....\$13,750 00

Yours truly,

E. J. FERMIER,

Professor Mechanical Engineering.



## DEPARTMENT OF CIVIL ENGINEERING.

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COLLEGE STATION, TEXAS, October 15, 1906.

*Dr. H. H. Harrington, President Agricultural and Mechanical College,  
College Station, Texas.*

DEAR SIR: For the Department of Civil Engineering I have the honor to report as follows:

## INSTRUCTION.

During the session of 1904-05 instruction was given in this Department to 1 C. E. Post Graduate, 12 Senior C. E.'s, 25 Junior C. E.'s and 30 Sophomore C. E.'s; also to 7 Electives, 12 Junior M. E.'s and T. E.'s, and 21 Senior Agricultural students, a total of 108 individuals. Forty-nine Freshmen registered for the Civil Engineering Course, but received no instruction in this Department. Out of 383 *regular students* in the College, 117 were registered in the C. E. Course, or 30.5 per cent of all the regular students registered in the College.

During the session of 1905-06, instruction was given to 17 Senior C. E.'s, 20 Junior C. E.'s, 19 Sophomore C. E.'s, 3 Senior A. E.'s, 4 Junior M. E.'s, 33 Sophomore M. E.'s and E. E.'s, 1 Special, 9 Electives and 2 Post Graduate E. E.'s, a total of 108 individual students. Fifty Freshmen registered for the Civil Engineering Course, and the total of all students registering in the Civil Engineering Course for the year was 109. In the whole College there were 363 students registered in the *regular courses*, of whom 30 per cent were in the Civil Engineering Course.

For the session of 1906-07 the registration to date shows 3 fifth year (Post Graduate) C. E.'s, 20 C. E. Seniors, 17 regular C. E. Juniors, 32 Sophomore C. E.'s and 63 Freshmen C. E.'s, a total of 135. In the whole College 495 students completed registration, of whom 459 are in the *regular courses*. This gives 29.4 per cent as the proportion of regular students who have indicated their preference for the Civil Engineering Course.

Eight regular courses which lead to degrees are offered by the College. Three of these are agricultural and five are engineering. One of these latter five is civil engineering and the above figures for the three sessions named indicate the estimate of the value the patrons of the College place upon the work done in the C. E. Course.

All engineering students have one year in which to decide, finally, which of the five engineering courses to select, so that the numbers registered in any particular course for the Freshman class do not definitely indicate the preference which will be shown by the higher classes. It might be interesting to compare the numbers in each of the classes, but since the number who graduate illustrate the final preference of those who go out as representatives from the institution I shall give the numbers and percentages only for the Senior class. For the two sessions covered by this report, and for the one which has just begun the numbers are as follows:

1904-1905.—Total number of graduates, 40; C. E.'s, 12; percentage of these who took the C. E. Course, 30.0.

1905-1906.—Total number of graduates, 46; C. E.'s, 16; percentage 34.9.

1906-1907.—Total number of Seniors, 48; C. E.'s, 20; percentage taking the C. E. Course, 41.7.

From the above it is seen that for the last session, and the one just begun, the percentage of C. E.'s in the Senior class exceeds the percentage shown in the registration in all classes. Courses in Electrical Engineering, Architectural Engineering and Textile Engineering have been organized but a short time, though they were needed long before it was possible to put them into operation, and these have drawn largely from the number of students who would very probably have chosen Civil Engineering in their absence. Indeed, the three graduates from the Architectural Engineering Course in 1906 were members of the Civil Engineering Course until the end of their Junior year, when they went over to architecture at the time the course was first offered. Since the organization of the Civil Engineering Course about 40 per cent of all the graduates of the College have taken this course.

The foregoing details are given at such length merely to emphasize the fact that in spite of the importance of the work evidently done, the Department of Civil Engineering has not been afforded adequate facilities for the purpose. From 1890 to 1892 I was in entire charge of both Civil Engineering and Physics. In 1892 the *half time* of an instructor was allowed me, and in 1899 Physics was entirely separated from Civil Engineering, and placed in charge of the instructor just mentioned. In 1903 the Department of Electrical Engineering was created and Physics was then assigned to the newly created department, and Professor D. W. Spence was transferred to the Department of Civil Engineering, in which he began his work for the College in 1892. Since 1890 the Civil Engineering instruction given members of the course has been much more than doubled, and an increased amount of instruction has also been given to students in other courses.

From 1903 until the present session the work of instruction has been carried on by Associate Professor Spence and myself, but since the close of last session a student assistant has been allowed the Department. To him has been assigned the care of field and laboratory instruments and he also assists with field practice. Later on in the session classroom work will also be assigned him. As far as instruction work is concerned the department is now able to give adequate time and attention to our classes for almost the first time since my connection with the College. The same can not be said of our physical equipment and appliances for instruction, however, as will be referred to later.

#### WORK OF OUR CIVIL ENGINEERING GRADUATES.

Our graduates find ready employment in lucrative engineering positions. While I have not heard directly from all of the class which graduated last June I have heard indirectly that thirteen of the sixteen graduates are now engaged in civil engineering work and the other three are taking fifth year work with us. One of these three refused an

offer of a permanent place at \$100 per month in order to return to us, and for a portion of the summer his compensation was \$125 or better. Another has a permanent position with one of the prominent railroads of the State at \$100 per month, and still another has gone to the Pennsylvania Railroad system, in New York, at the same salary, so I am informed. Two members of the class I placed with the United States Engineers on the Mississippi River protection work at \$75 per month, with excellent opportunity of advancement. Another went to Mexico in response to a request which a former graduate of the course sent me. Several others have been located in Louisiana and the remainder in Texas, principally in railroad work. During the past year we have had requests for about forty civil engineers and were able to supply only a small percentage of these, simply because those of our graduates who want work in their line have no difficulty in securing it and generally prefer to remain with present employers rather than to change, except for material betterment of circumstances. Ten years ago scarcely fifty per cent of our graduates could find good engineering openings, but now it would not be difficult to place two or three times the number which we annually graduate from the course in civil engineering at the College.

#### APPROPRIATIONS.

During the session of 1904-1905 the sum of \$2779.93 was expended by this Department for equipment, which, together with \$220 expended during the latter part of the preceding session, used up all but 7 cents of the \$3000 allowed us out of the special legislative appropriation for equipment. In addition to this amount \$399.98 out of the \$400 allowed us out of the M. & S. appropriation was expended in the manner shown by the Treasurer's books for running expenses.

For the session of 1905-1906 \$500 was allowed for equipment and also \$500 out of M. & S. for current expenses. Of the former sum the entire amount and 3 cents in excess were expended, and for the latter appropriation the expenditures exceeded the appropriation by 5 cents.

During the session of 1904-1905 the sum of \$158.65 was expended out of the student labor fund, largely for work not directly connected with the Department but under my direction on outside work. During 1905-1906 the sum of \$113.70, from the same fund, was similarly expended, but mainly for work directly connected with the Department.

For the session of 1906-1907 the amounts allowed the Department are as follows:

Out of Endowment fund.....	\$500 00
M. & S. plus student laboratory fees for current expenses (amount of latter not yet determined).....	500 00
Student Labor .....	100 00

The foregoing amounts, while greatly in excess of amounts previously received by the Department in the same length of time, fall far short of supplying the pressing needs of the Department for adequate facilities for instruction in civil engineering lines of industrial development. However, until more room is available, \$500 from equipment, and an



equal amount from M. & S. for current expenses, together with student laboratory fees and about \$125 for student labor, will suffice. I earnestly recommend, however, that an effort be made to secure an appropriation sufficient to provide space which is needed *now*, and which will be even more badly needed in the near future.

#### NEW BUILDING.

The Department of Architectural Engineering and Drawing is also badly cramped and needs more space. It seems to me that because of the fact that the work of that Department is related in many ways to that of the Civil Engineering Department it would be the part of economy to provide a separate building for the work in both courses, and in drawing, which is freely required in all engineering courses. I believe that about \$60,000 would suffice for the building, which, together with about \$20,000 for equipment, or \$80,000 in all, would enable both departments to do work commensurate with the value of their services to the institution, and to the State at large. Until more facilities are afforded us it will be impossible for the Civil Engineering Department to do as effective work as should be rendered by it.

#### CONCLUSION.

It gives me pleasure to call your attention to the effective work uniformly rendered by my associate, Professor D. W. Spence. Had he served a corporation as long and faithfully as he has served the College his compensation would very probably have been double or treble what it now is. I trust that in the near future it may be possible to give him substantial recognition of the value of his services.

Mr. R. E. Schiller, Student Assistant, has only begun his connection with the Department as a teacher, but his work gives promise that he will become an efficient engineering instructor.

With high appreciation of the aid and encouragement which you have always given me in the conduct of my work, I am,

Yours respectfully,

J. C. NAGLE,

Professor of Civil Engineering.

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#### DEPARTMENT OF PHYSICS AND ELECTRICAL ENGINEERING.

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COLLEGE STATION, TEXAS, October 25, 1906.

*Dr. H. H. Harrington, President Agricultural and Mechanical College,  
College Station, Texas:*

I have the honor to submit herewith the biennial report for the Department of Physics and Electrical Engineering.

The growth of this Department during the past two years has been so great that the rooms allotted to it have become entirely inadequate.

The Senior class two years ago consisted of two men; the class of this year numbers fourteen. There are also three men taking graduate work leading to the degree of "Electrical Engineer." The increase in the number of lower classmen has been even more pronounced. The present Sophomore class has thirty-seven in it, and the number of Freshmen who plan to take Electrical Engineering is over a hundred.

Up to the present time it has been possible to care for this rapidly growing department, because the Board of Trustees has been prompt and liberal in supplying the appropriations asked for. The increase of numbers has now reached the point, however, where mere additional equipment will not suffice to meet the actual demands of the Department. When the present Sophomores become Seniors, the section rooms and laboratories now occupied by the Department will be entirely too small to accommodate the students.

Even next year when the present Freshmen become Sophomores, it will be very hard to find room for the experimental work that will be required of them. Unless a suitable building, which the condition of the Department so imperatively demands, can be furnished, the interests of the College will suffer seriously.

The great and constantly increasing demand for Electrical Engineers is a certain guarantee that the number of students taking this course will continue to increase for years to come.

We need also additional equipment. The appropriations that have been made for the Department have been as liberal as has been possible, considering the amount available for such purpose, but they have fallen short of what the greatest interests of the State demand.

For the next two years the efficiency of the Department requires that it should have aside from salaries:

	For 1st Year	For 2d Year
Building .....	\$40,000 00	\$.....
Equipment .....	10,000 00	6,000 00
M. & S. ....	1,000 00	1,000 00
Total .....	\$51,000 00	\$7,000 00

Respectfully submitted,

N. H. BROWN.

## REPORT OF DEPARTMENT OF ARCHITECTURAL ENGINEERING AND DRAWING.

COLLEGE STATION, TEXAS, October 16, 1906.

*Prof. H. H. Harrington, President Agricultural and Mechanical College:*

SIR: Complying with your request I have the honor to submit the following report for the Department of Architectural Engineering and Drawing:

First. The attached statement gives the number of students instructed during the past session and the number of hours of class work

for each instructor. The average for the year is 246 students and 68 hours of class work per week.

Instructor.	Fall.		Winter.		Spring.	
	Hours.	Students.	Hours.	Students.	Hours.	Students.
Nelson .....	26½	204	26½	183	26½	170
Mitchell .....	21	67	22½	84	19½	94
Giesecke .....	22½	108	19½	76	18	53
Total.....	70	270	68½	241	64	227

Second. The regular work in the Department, not included in the schedule, is that of preparing exercises and lectures for the classes, correcting and grading exercises and assisting students in extra work.

The drawing rooms are open from Monday morning to Saturday night and a large number of students do extra work in addition to their regular schedule work.

Third. During this session the Department had appropriations amounting to \$500—available for running expenses and equipment; of this amount \$78 are on hand and the remainder has been expended as follows:

Materials and supplies .....	\$ 32 00
Stoves .....	44 00
Plaster casts, models .....	118 00
Furniture .....	111 00
Books and Periodicals .....	117 00
Total .....	\$422 00

The plaster casts, models, furniture, books and periodicals purchased this session are material additions to our equipment and enable us to give better instruction in free-hand drawing and in architectural work.

During the last two years we have secured more work from the Junior engineering students, more from the Sophomore engineering, and more from the Freshman agricultural students than heretofore.

The course given the Sophomore engineering students has been extended by the addition of Stereotomy, due largely to Mr. Mitchell's energy.

We have a few students in the Architectural Engineering course and considering that they have had only one year of regular instruction in this course I am very much pleased with their work. I think it compares favorably with that done in other schools.

The increased number of students at the beginning of this year has necessitated the addition of considerable equipment in the way of drawing boards, which the department undertakes to furnish to all students, and of instruments, which are furnished by the Department to Agricultural students.

Of the four rooms belonging to the Drawing Department two are entirely inadequate to accommodate the present large sections. The maximum seating capacity of our only recitation room is twenty-four, while



the largest section intended to occupy it is composed of thirty-six students.

I also have the pleasure to report an unusually large per cent of the students entering this year have had courses in drawing, which is particularly gratifying when taken as a matter of special preparation for the courses offered by the College.

Respectfully submitted,

F. E. GIESECKE,

Professor of Architectural Engineering and Drawing.

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## REPORT OF TEXAS TEXTILE SCHOOL.

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COLLEGE STATION, TEXAS, October 16, 1906.

*Dr. H. H. Harrington, President of the Agricultural and Mechanical College of Texas:*

DEAR SIR: I have the honor to submit to you the first biennial report of the Texas Textile School, covering a period from its organization to date.

I was appointed Director of the Textile School in June, 1904, at which time the textile building had been completed and some equipment for increasing the capacity of the steam plant, considered necessary in anticipation of the needs of the Textile School, had been contracted for. Expenditures to cover the above and other items consumed a part of the \$50,000 appropriated by the Legislature to build and equip the Textile School, leaving \$15,872.87, which amount is covered by vouchers which passed through my hands up to September 1, 1905. This amount was spent for the equipment which went into the Department and with the \$750 set aside by the Board of Directors for running expenses for the past session represents the entire expenditure for both equipment and running expenses of the school up to September 1, 1906. This amount has been spent most carefully and the manufacturers of machinery and supplies have been quite liberal in making donations to the school so that the value of the equipment and supplies as shown by our inventory of last June is \$26,502.97.

### EQUIPMENT.

The following is a list of the equipment secured:

*General Equipment.*—The building is equipped with the latest and most approved system of automatic sprinklers for protection against fire, furnished by the General Fire Extinguisher Company, Providence, R. I.; Webster vacuum system of steam heat, installed by the General Fire Extinguisher Company, Providence, R. I.; the "Vortex" system of humidifying, furnished by the American Moistening Company, Boston, Mass. The power is furnished by five General Electric Company's three-phase induction motors conveniently placed on the ceiling for the proper distribution of power as required. The entire system of shafting, pulleys

and hangers has been furnished by the Jones & Laughlin Steel Company, of Pittsburg, Pa.

*Yarn Manufacture.*—Picking. One Howard and Bullough automatic feeder and opener connected by cleaning trunk and gauge box to Howard and Bullough breaker lapper; one Kitson finisher lapper; one Kitson thread extractor.

*Carding.*—One Howard & Bullough 40-inch revolving flat card; two traverse grinders; one drum grinder; stripping and burnishing rolls.

*Drawing.*—One Howard & Bullough four delivery drawing frame, with electric stop motions.

*Roving.*—One Woonsocket, 11x5½ inch slubber with Daly's differential motion; one Saco & Pettee, 9x4½ inch intermediate roving with Holdworth's improved differential motion; one Howard & Bullough 7x3½ inch fine roving frame with Tweedale's differential motion.

*Spinning.*—One Howard & Bullough 112 spindle spinning frame with combination builder motion for warp and filling; one Draper Company's Week's banding machine; one D. A. Tompkins Company's banding machine.

*Spooling.*—One Draper spooler; one Easton & Burnham spooler; one Easton & Burnham skein spooler; two Barber knotters.

*Winding.*—One Universal Winding Company's winding machine for cones and tubes.

*Reeling.*—One D. A. Tompkins Company's 44 spindle combination reel.

*Warping.*—One Draper Company's slasher warper with balling attachment.

*Slashing.*—One Cohoes cylinder clasher with 6-beam creel, size kettle, overhead track and differential hoist.

The section for yarn manufacture is also equipped with the necessary supplies, including bobbins, spools, doffing boxes and trucks, change gears, etc.

*Weaving.*—Hand Looms. The hand loom weaving section is equipped with ten hand looms with 4x4 boxes, twenty-four harness dobbies, arranged for 4-beam work; warping, beaming and drawing-in frames.

*Power Weaving.*—One Northrop print cloth loom made by the Draper Company; one 40-inch Northrop loom made by the Draper Company; one Crompton & Knowles loom for twills and satteens; one Crompton gingham loom; one Knowles "Gem Dress Goods" loom; one Crompton damask loom with 600-hook, double cylinder, double lift, Halton jacquard; one Whitin cotton loom with 20-harness dobby; one Whitin satteen loom; one Draper drawing-in frame; one Tompkins drawing-in frame; one Jacob K. Altemus bobbin winding machine; one John Royle & Son's 600's piano card cutting machine; one John Royle & Son's card lacing frame.

The power weaving section is equipped with the necessary supplies and accessories, loom beams, warping frames, harness frames, heddles and change gears.

*Cloth Finishing.*—This section is equipped with the necessary machinery for finishing the fabrics woven in the department, including the following machinery furnished by Curtis & Marble: One cloth inspecting machine; one railway sewing and rolling machine; one brushing and calendering machine; one cloth folding machine.

#### DONATIONS.

The following donations have been made:

From Mr. J. E. Sirrine, Greenville, S. C., half the cost of the plans and specifications for the textile building.

From the D. A. Tompkins Company, Charlotte, N. C., one 44-spindle reel; one banding machine; six slasher beams; one drawing-in frame.

From the General Fire Extinguisher Company, Providence, R. I., half value on the following: Webster vacuum steam heating system; automatic sprinkler system for fire protection.

From the Park Manufacturing Company, Charlotte, N. C., part value on one power elevator.

From the Howard & Bullough American Machine Company, Pawtucket, R. I., half value on the following: One self-feeding opener; one breaker lapper; one cleaning trunk; one gauge box; one revolving flat card; one 4-delivery drawing frame with electric stop motions; one 64-spindle,  $7 \times 3\frac{1}{2}$  inch roving frame; one 112 spindle spinning frame.

From the Kitson Machine Works, Lowell, Mass., one set machinery moving trucks; eighteen steel lap rods; half value on one finisher lapper and one thread extractor.

From the Draper Company, Hopedale, Mass., one slasher warper and balling machine; one Week's banding machine; one 40-spindle spooler; one 90-spindle twister; one Northrop print cloth loom; one Northrop 40-inch loom; one improved drawing-in frame; temples for all looms in the school.

From the Saco & Pettie Machine Shops, Newton Upper Falls, Mass., half value on one intermediate roving frame.

From the American Moistening Company, Boston, Mass., complete humidifying system for the entire building.

From the Curtis & Marble Machine Company, Worcester, Mass., half value on the following: One cloth inspecting machine; one railway sewing and rolling machine; one brushing and calendering machine; one cloth folding machine.

From the Universal Winding Company, Boston, Mass., one 6-head universal winding machine for cones and tubes.

From Barber-Colman Company, Boston, Mass., two Barber knotters.

From Crompton & Knowles Loom Works, Worcester, Mass., half value on the following: One 6-cam loom for twills and satteens; one Crompton gingham loom; one Knowles "Gem Dress Goods" loom; one Crompton damask loom; one cotton loom with 400-hook jacquard.



From the Easton & Burnham Machine Company, Pawtucket, R. I., one 36-spindle bobbin spooler; one 36-spindle skein spooler.

From Thos. Halton's Sons, Philadelphia, Pa., one 600-hook jacquard machine.

From the Cohoes Iron Foundry & Machine Company, Cohoes, N. Y., half value on the following: One cylinder slasher; one size kettle; one overhead track and differential hoist.

From Jacob K. Altemus, Philadelphia, Pa., one 12-spindle bobbin winding machine.

From John Royle & Sons, Paterson, N. J., half value on the following: One 600's piano card cutting machine; one card lacing frame.

From the DeHaven Manufacturing Company, Brooklyn, N. Y., lot of spinning frame and twister travelers.

From the Victor Shaw Ring Traveler Company, Providence, R. I., lot of spinning frame and twister travelers.

From the Standard Ring Traveler Company, Providence, R. I., lot of spinning frame and twister travelers.

From the National Ring Traveler Company, Providence, R. I., lot of spinning frame and twister travelers.

From the Shultz Belting Company, St. Louis, Mo., half value on all belting used in the department.

From Morris & Company, Groveville, N. J., four "Morris Duck Baskets."

From the General Electric Company, Schenectady, N. Y., part value on all electric motors used in the school.

From the James Hill Manufacturing Company, Providence, R. I., twenty-four vulcanized fibre roving cans.

From the T. C. Entwistle Co., Lowell, Mass., part value on the following: Two traverse card grinders; one drum card grinder; one burnishing roll; one stripping roll.

From the Waters-Pierce Oil Company, Houston, Texas, sixty gallons lubricating oil.

From the Jones & Laughlin Steel Company, Pittsburg, Pa., three-fourths value on all shafting, pulleys and hangers used in the school.

From the Woonsocket Machine & Press Company, Woonsocket, R. I., half value on one 36-spindle slubber.

From the Cling-Surface Manufacturing Company, Buffalo, N. Y., cling-surface for all belting in the school.

From the Whitin Machine Works, Whitinsville, Mass., half value on the following: One 24-harness dobby loom; one heavy pattern satteen loom.

From the U. S. Bobbin & Shuttle Company, Providence, R. I., one-fourth value on all bobbins and spools used in the school.

From the Wabash, St. Louis, Iron Mountain & Southern and International & Great Northern Railroads: Half the regular tariff rate on all shipments for the school carried over their lines.

It will be of interest to know that the following periodicals are received gratis by the school:

Textile Manufacturer's Journal; Textile World Record; American Cotton Manufacturer; The Tradesman; Dyer's Bulletin; Wool and Cot-

ton Reporter; The Mill and Shop; Fibre and Fabric; Southern Farm Magazine; Textile Excelsior.

The donations mentioned above have been of much value in enabling us to install an equipment more nearly commensurate with our needs. The donations also are interesting particularly as evidence of the confidence felt by machinery manufacturers in the possibilities of Texas as a cotton manufacturing state.

While the equipment secured has served well for a start, there are several important processes which we have no machines to illustrate and there are many places where our facilities should be increased in order to give instruction commensurate with the importance of the work as undertaken by the State. While in no wise intending to speak disparagingly of the liberal appropriation made by the Legislature to build and equip the Textile School I deem it only proper to state that our facilities will not bear comparison with any of the other textile schools of the country. Not only is our equipment less than any of the other textile schools were able to start with, but since the organization of the school we have received practically nothing for additional equipment. Our students must compete with graduates from other textile schools and in order satisfactorily to do so our graduates should have had advantages equal to those offered elsewhere. I think the prospects for the development of the cotton mill industry in Texas are very favorable as is evidenced by the success of the fifteen mills now in operation in the State. I believe that the turning out of textile graduates will create a demand for the services of such young men for the reason that Texas capital will be invested in mill enterprises when the parties interested feel satisfied with the ability of the man or men responsible for the mill enterprise. In view of these facts I think the State will make no mistake in giving a liberal support to her Textile School.

The \$1000 set aside by the Board for the purchase of additional equipment for this Department this year will be spent to purchase a part of a much needed combing outfit. The \$750 allowed for running expenses will be spent for cotton, yarns, oil, repairs generally, small supplies and the services of a janitor.

#### APPROPRIATIONS DESIRED FOR THE SESSIONS OF 1907-08 AND 1908-09.

To complete the combing outfit which will be purchased with the \$1000 available this year, the purchase of a ribbon lap machine will be necessary which, I estimate, will cost \$1000.

We have only one card, one spinning frame and one drawing frame and as these should be kept in operation to afford instruction for the lower classes it is impossible to have these machines at the disposal of our Senior class a sufficient length of time for experimental work. \$1600 will supply our present needs for machinery of this class.

For giving instruction in the manufacture of fine yarns a jack roving frame is necessary which, I estimate, could be installed for \$500.

Mule spinning is a very important process often employed in the manufacture of fine yarns. We have labored unsatisfactorily in an endeavor to give instruction in this line of work entirely without apparatus. A self-acting mule should be installed in the carding and spinning department. This machine I estimate, would cost \$1200 installed.

A twister for the coarser numbers of yarns is needed. I estimate that this machine would cost \$300 erected.

A railway head is needed to illustrate a process not uncommon in the mills of the South. This machine would cost about \$200.

In the weaving department also our equipment is short in many respects. We are very much in need of apparatus for explaining the operation and mechanism of standard processes and machines. \$400 is needed for the purchase of such apparatus.

The installation of a short chain beamer would greatly facilitate the work of our students in fancy weaving. This beamer would cost about \$100.

Several more looms are needed to teach the principles of weaving for which the looms we now have are not adapted. \$1200 should be available for this need.

The motors now in use for supplying power for the machinery now installed are practically loaded to their full capacity and in case the additional equipment is secured three additional motors will be required. These motors will cost approximately \$640.

The total amount asked for equipment as discussed above is \$7140. We have arrived at the figures given taking into consideration the willingness of the machine manufacturers to make liberal concessions to the school. The amounts represent about half of fair prices including freights and costs incidental to erection.

I estimate that we will need for running expenses for each of the next two years about \$800 to be expended for cotton, oil, repairs, general small supplies and janitor's services.

While the textile chemistry and the dyeing are taught by the Department of Chemistry I trust that the following remarks in regard to this branch of the work may not be out of place. Since the organization of the Textile School it has been quite apparent that the facilities for handling this work are entirely inadequate to meet our needs. Dyeing is a very important adjunct to the textile industry and is rapidly increasing in importance in the South. The importance of the work justifies, I think, the installation of sufficient dye house equipment to illustrate the more important methods of commercial dyeing. The Department of Chemistry is already complaining of lack of laboratory room and the College classes are each year increasing. At present the textile students do only a limited amount of experimental dyeing, using very small samples and proportionately small vessels which unavoidably give little idea of commercial methods. There should be a dye house equipped with dye vats and typical machines for dyeing raw stock, yarn in warp chains and in hanks and for bleaching processes, etc. Facilities for dyeing the raw stock and yarns for all the colored work done in the school would benefit our work very much. Dyed yarns in the quantities and sizes we require are extremely difficult to obtain. Facilities for dyeing the material used would solve this problem and at the same time prove of great instructional value.

As previously stated the instructor in chemistry and dyeing is employed by the Department of Chemistry. Whether this arrangement is continued or whether this instructor be employed by the Textile Department I think the practical dyeing should be in connection with this



Department for the reason that the Textile School prepares the stock before being dyed and uses it afterwards and the handling of the material could be done more conveniently; better co-operation could be had and steam and power are more conveniently available. I estimate that \$3000 would meet our needs for dyeing equipment for the present and recommend that this amount be asked for.

Instruction as given in the Department may be divided into the following general subjects: Carding and spinning, warp preparation, designing and weaving. The subject of chemistry and dyeing is taught the Textile Engineering students by the Department of Chemistry. This is supplemented by other general and technical subjects taught by other departments of the College, the object being to lay the foundation of a well rounded knowledge of cotton manufacturing. The training is broad in scope and embraces both theoretical and practical instruction in the processes necessary in the manufacture of cotton goods from the raw stock in the bale to the finished fabric. Not only are plain cloths woven, but the students have produced many fabrics of intricate and fancy patterns. The aim has been so to arrange the course as to give the student first a good general education and for this reason technical instruction in this Department is confined almost wholly to the Junior and Senior years, Textile subjects being taken up in the spring term of the Sophomore year.

Last June the Department turned out its first three graduates and I am pleased to say that these men immediately secured positions with some of our best cotton mills and their efforts have met with flattering success.

In this report I wish most heartily to commend the interest shown and the effort put forth by Mr. Bagley, who has charge of the work in weaving and designing. To his untiring efforts and attention to his work is due a large measure of what success the Textile School may have attained. The past two summer vacations he has spent in the New England States in the study of fancy weaving and designing for the purpose of better preparing himself for the work in his charge. In view of the efficient work he is doing I recommend that he be advanced to the rank of Associate Professor and that his salary be increased to \$1500 a year.

Respectfully submitted,

J. S. WIER,  
Director.

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## REPORT OF DEPARTMENT OF ENGLISH.

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*President H. H. Harrington, A. and M. College of Texas.*

SIR: I have the honor to submit the following report of the Department of English:

The work of last year was unusually satisfactory. Almost all of the students did well, and most of them made excellent progress.

The courses of instruction have been practically the same as they were during the previous two sessions. The Freshmen, in addition to thoroughly mastering Espenshade's Composition and Rhetoric, have read

carefully two classics each month. Special attention has been given to drill in composition writing. Besides the regular weekly compositions, much written work has been required in the classroom. The purpose of such exercises was to accustom the student, on short notice, to arrange and write down his thoughts without the help of dictionaries and other books of reference. The Sophomores have completed Moody and Lovett's History of English Literature and have read two classics a month. They also have been required to do a great deal of composition work in connection with their reading, and on general subjects. The Juniors have been required to write one composition a month during the session, and the Seniors one a month during the winter term. This work has proved to be very valuable in keeping the students of the upper classes from relapsing into the carelessness and crudeness of expression which they were helped to overcome when they were Freshmen and Sophomores.

The regular schedule work does not by any means represent the full amount of time the instructors of the Department have had to give to their daily tasks. It has required not less than four hours a week for extra conferences with individual students, to say nothing of the time spent in reading and correcting the large number of compositions, varying in length from one to ten pages, that have come every week to the desk of each instructor. The members of the teaching force of the Department have not in any way spared themselves as to hours of work. The office has been kept open from eight o'clock in the morning until after five in the afternoon, six days of every week, and even at night instructors have not failed to respond cheerfully to any call made upon them for advice and assistance.

During the session the two section rooms of the Department have been supplied with chairs with arm rests for students, and with chairs and desks for the instructors, so that nothing more is needed for the equipment of these two rooms.

At least half the time of another instructor became imperative with the large increased attendance this year. During the session instruction in English has been given to practically all the students of the College, and it has been impossible to give each student sufficient attention to gain the best results. A great many of our students enter the Freshman class very poorly prepared in English, and were it not for the special attention that they receive, it would be impossible for them to do the required work.

I would respectfully call your attention to the fact that the salaries paid in the Department do not compare at all favorably with those paid in other departments. As the teaching of English according to present methods is very laborious and trying work, and requires on the part of the instructor not only skill and patience, but unusual thoroughness of preparation, one fails to see any good reason why such a disparity should exist.

In closing I wish to express my sincere thanks for the continued assistance and encouragement which you have so cheerfully given the Department.

Respectfully submitted,

C. P. FOUNTAIN,  
Professor of English.

December 1, 1906.

REPORT OF DEPARTMENT OF MATHEMATICS.

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COLLEGE STATION, TEXAS, October 18, 1906.

*President H. H. Harrington.*

DEAR SIR: The number of students in the Department of Mathematics at this date is 433, an increase of 80 over the corresponding number last year. Temporary provision has been made for the instruction of the additional sections, but the arrangement will terminate in June next, and I recommend that before the opening of next session an additional instructor be employed at a salary of \$1000 per annum.

Very respectfully,

CHARLES PURYEAR.

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REPORT OF DEPARTMENT OF HISTORY.

*President H. H. Harrington.*

DEAR SIR: For some years now, as you are aware, the work of this Department has, by the ruling of the Faculty and with the sanction of the Board of Directors, been restricted to the Freshman and Senior classes, the former studying such portion of world history as can be given them with any degree of thoroughness in the course of a single session, the latter giving their attention to industrial history and political economy. The time allotted to the work in the Freshman class differs according as the cadets are taking engineering courses or agricultural, the former having four hours a week and the latter three. The Seniors of all courses have three hours a week.

The methods used in instruction are by oral quizzing based upon the text-book, by lecture, by requiring map-drawing and essays on periods or characters or historical problems—all necessitating collateral reading,—and by written examination. The text-books used are changed from time to time with a view to keeping the work of the Department up to date.

The great increase in numbers this session has required the breaking up of the Freshman engineering roll into eight sections instead of the five sections of last session, resulting in an increase of periods for distribution between the two instructors of the Department. These share between them forty-four hours of class attendance and the instruction of some two hundred and fifty students. Should there be—as is likely—a still greater addition to the number of successful applicants at the beginning of the ensuing year, another instructor will be imperatively needed, as well as another room for department use. A competent instructor can not be had for less than one thousand dollars a year.

The wall-maps in use in the Department were purchased many years ago, and are not only insufficient in number and badly worn, but, so far as political geography is concerned, are antiquated and worse than useless, but for the teacher's oral correction of them in the hours of recita-



tion. A set of good wall-maps for each of the Department rooms would be a most desirable addition to our equipment. The cost of one such set would be small.

Respectfully submitted,

C. W. HUTSON,

October 15, 1906.

Professor of History, A. and M. College.

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## REPORT OF DEPARTMENT OF LANGUAGES.

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COLLEGE STATION, TEXAS, October 25, 1906.

*President H. H. Harrington.*

SIR: In compliance with your request, I submit herewith my report for the Department of Languages.

During the year 1905-06 the total number of language students was 94, divided as follows: German, 34; French, 14; Spanish, 38, and Latin, 8. The enrollment for the current year to date is: German, 33; French, 13; Spanish, 53, and Latin, 3, a total of 108. To this work Mr. Powell is giving nine hours per week and I am giving eighteen. These figures are for actual class instruction and are exclusive of the time required for the correction of composition work, which amounts on the average to two-thirds of the time spent in conducting recitations.

It has been my experience during the past four years that each beginning class comes to us with better preparation in English than the one preceding, and that less of our time is being required for the explanation of some of the principles of general grammar. Thus we are enabled to accomplish more in the limited time allotted to the study of language. An innovation in the Department is the introduction of collateral reading. Beginning with the second term of last session, all students in the advanced classes have been required to stand an examination upon one book of collateral reading a term.

The Department owns a valuable Littré's Dictionary of French. Since the last report Zerollo's Encyclopædic Dictionary of Spanish, and a book-case have been added to the equipment of the Department. There is need of an encyclopædic and etymological dictionary of German, to cost from \$25 to \$50.

The Department needs a mimeograph or other duplicating device for examination and quiz purposes, and to supply material for frequent composition exercises. There is urgent need of new chairs in my section-room. Daily composition work is of prime importance in our courses, particularly in the beginning classes, and this work is seriously hampered by the cumbersome use of lapboards now necessary. A similar condition has been met temporarily in the assistant's room through the kindness of Mr. Mitchell, who has loaned us a number of desks formerly in use in the drawing room. This arrangement has proved entirely satisfactory to us. All these needs might be met, I should think, by the expenditure of not to exceed one hundred and fifty dollars.

Respectfully submitted,

C. B. CAMPBELL.

## REPORT OF MILITARY DEPARTMENT.

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COLLEGE STATION, TEXAS.

*To President H. H. Harrington, Agricultural and Mechanical College of Texas.*

SIR: In compliance with your request I have the honor to submit the following report of the Military Department:

## THEORETICAL INSTRUCTION.

*Senior Class.*—One hour a week during fall term. Course included study of Bonaparte's Campaign in Italy, and instruction in and lectures upon modern firearms, tactics, strategy, bases and lines of operation, outposts, marches, cavalry screens, and such other subjects as are set forth in or suggested by a study of these campaigns.

*Junior Class.*—Three hours a week during winter term. Course included school of the soldier, company, and battalion, in both close and extended order, guard manual, and firing regulations. Talks were made to the class on ancient and modern weapons of warfare, and on the influence of modern firearms upon tactics and strategy. There is no theoretical instruction during the spring term.

## PRACTICAL INSTRUCTION.

Drills occur on Mondays, Wednesdays and Fridays in the fall and spring terms. Inspections or dress parades are held on Mondays, Wednesdays and Fridays of the winter term when the weather is mild.

Considering the time devoted to theoretical and practical instruction, very satisfactory progress has been made. The battalion drills well. I have been especially pleased with the interest taken by the corps in military matters during the past two years.

A new flag staff is needed.

There has been scarcely any complaint about the food the past year. Mr. Shisa seems to have been given somewhat more latitude in management during the present school year, and the results have been very satisfactory. Student waiters are much more satisfactory to the corps than Mexicans or negroes, and though their employment costs more, I am inclined to think that the additional expense is justified by the betterment of the service. If possible, however, arrangements should be made to pay them without depriving other departments of their usual and much-needed allotments.

A large new dormitory is greatly needed. For lack of room a number of young men have during the last two years been turned away from the College. Even with the students now in attendance, it has often been necessary to put three in a room. Scarcely any of the rooms are large enough for more than two students. A sacrifice of health and comfort is always the result of overcrowding men in their living quarters.

It is only a question of a few years until the number of students at this College will be two, three, four, or even five times the number they

are now, provided the State furnishes the necessary dormitories and instructors. In 1886, when I was Professor of Military Science in the University of Illinois, there were about five or six hundred students in attendance; there are nearly four thousand there now. In view of these facts, there could be no mistake in building at once a large dormitory containing, say, two hundred rooms, or two dormitories containing one hundred rooms each.

An armory, where the cadet rifles, swords, belts, target supplies, ammunition and such ordnance as is needed at the College can be kept, is very much needed.

A new hospital, too, is much needed, and enlarged facilities for bathing should be provided. A building with swimming tank, bath-rooms, and about 500 lockers—one for each cadet—should be built. Connecting with the building for bathing purposes, an out-of-door gymnasium properly inclosed is needed, and would be of great benefit and much gratification to the cadets.

More section-rooms are needed in the main building; the Military Department has none. It is believed that one of the section-rooms of the Civil Engineering Department could be used for that purpose, if that Department had a separate building. As it is one of the most important departments at the College, a very large per cent of the students taking that course, it seems to me that a Civil Engineering Department building should be provided for at an early date.

On the whole, the discipline and conduct of the corps of cadets the past year has been very satisfactory. I have noted a considerable improvement over last year. Last year there was very little hazing; in fact, hazing at this College may be said to have practically ceased. The general sentiment of the corps is against it; the great majority of the best men of the student body are opposed to it and, too, the honor system in examinations has been placed on a firmer basis by the corps of cadets giving it, voluntarily, their hearty support.

Very respectfully,

H. H. SARGENT,  
Captain Second Cavalry.

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## REPORT OF HEALTH DEPARTMENT.

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COLLEGE STATION, TEXAS, May 7, 1906.

*President H. H. Harrington, Agricultural and Mechanical College of Texas.*

SIR: In compliance with your request, I beg leave to submit the following report:

The Health Department is one of the most important of this institution, and everything possible should be done to favor its work and render it more effectual in attaining the ends for which it was established. If the fees now charged, from which it derives its support, are not sufficient for its proper maintenance, necessary funds should be supplied either from the subsistence fund or by legislative appropriation.



There is no question but that the capacity of the student body for mental attainment and advancement is greatly influenced by its physical well-being. The stronger and more vigorous the student, the more capable is he of doing the most satisfactory work in every department of the school.

It has been the constant endeavor of this Department to maintain the health of the students on as high a plane as possible and to render prompt and efficient services to those who might be sick; to reduce the time lost from work on account of accident or illness to a minimum, by securing as speedy restoration to health as possible.

I feel that our work along this line has not been ineffectual. In some cases better results might have been obtained had the equipment for treating been more adequate. However, the work has, on the whole, yielded very satisfactory results. During the past session there have been no fatalities among the students, notwithstanding the fact that there have been several cases of serious illness.

#### HOSPITAL.

During the year the hospital has been supplied with shelving for the pharmacy, kitchen and linen room, and new screening was placed in the doors and windows.

The building is not well adapted to its purpose, either in arrangement or substantialness of construction; it is not thoroughly weather-proof and during the winter months it is extremely difficult to keep the rooms comfortably warm with the heating apparatus at our command. The bath and toilet rooms have no heating facilities whatever.

A strong effort should be made to secure an appropriation for erecting and equipping a new hospital.

#### TRAINED NURSE.

The satisfactory results which have been obtained in the sickness we have treated have been due in a great measure to the painstaking, conscientious attention of our trained nurse. She has shown herself thoroughly competent in the discharge of her duties.

Not every trained nurse would fill the position satisfactorily; she should not only have acquired the necessary professional knowledge and skill, but should also have maturity of judgment and firmness of character to a marked degree. These qualities are essential to success in the work in this institution.

The pharmacist is of great assistance in the work of the department, and a salary sufficient to secure the services of a competent man should be allowed. It is possible that the pharmacy might better serve the interests of the College community and also be more productive of revenue if a small but good stock of stationery, toilet and household articles were carried. It is also possible that a saving might be effected by placing the College book store in the pharmacy.

#### MEAT SUPPLY AND REFRIGERATOR.

The meat supply and refrigerator at the Mess Hall have been regularly inspected, and have shown evidence of proper cleanliness.

## NATATORIUM.

The facilities for bathing have been improved to some extent during the past session by the addition of several shower baths. The building, however, is not supplied with heating apparatus, and is a fruitful source of colds during the winter months. A determined effort should be made to secure an appropriation for a new building. A well-equipped gymnasium, in connection with the natatorium, would greatly benefit the physical development of the students, especially those who do not participate in out-door sports.

## DORMITORIES.

In a former report I recommended that some modern method of heating be provided for the dormitories. I would respectfully renew that recommendation. Our present method is unsatisfactory and not free from danger. It is not practicable to maintain an even temperature with the stoves, and they increase very materially the impurities in the atmosphere of the rooms. The installment of modern apparatus would improve very much the comfort and healthfulness of the students' quarters.

## RECOMMENDATIONS.

I respectfully recommend that:

1. The sum of \$250 be set aside annually for the purchase of linen, instruments, apparatus for treatment and other necessities.
2. That an effort be made to secure an appropriation of at least \$20,000 for the erection and equipment of a new hospital building.
3. That efforts be made to secure an appropriation for a new natatorium and gymnasium.
4. That a modern method of heating be provided for the dormitories.

Respectfully submitted,

HOWARD M. LANHAM,  
Physician and Health Officer.

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PHYSICIAN AND HEALTH OFFICER.

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COLLEGE STATION, TEXAS, October 13, 1906.

*President H. H. Harrington, Agricultural and Mechanical College of Texas.*

SIR: I herewith submit a short report supplementary to that of my predecessor, Dr. H. M. Lanham.

Having held the position of Surgeon and Health Officer of the College for a few weeks, I am unable to present an exhaustive report. But since taking charge of the Hospital and Health Department, I have observed a few things which I should like to call your attention.

1. *The Hospital.*—The recommendation of my predecessor, that a new hospital be built, is a good one, but as there are other more urgent

necessities required for the institution at the present time, I do not urge a new one at present. I hope, though, in a few years, that a new and modern structure will be erected more in keeping with the Institution. However, there are immediate needs in the present building.

(a) The stove now in use for heating water for baths is inadequate with such long pipe connections. A coal stove, such as are used in barber shops, would be less expensive and more effective.

(b) One of the wards should be converted into private rooms in which to isolate very sick patients or contagious diseases, or for the use of local patients (instructors or others who would feel the need of such quarters during illness).

2. If an appropriation be made for new cottages—although I am perfectly satisfied with my present residence—it would be better for everyone concerned if one were built near the hospital for the surgeon. He could observe the management of the hospital better and be more conveniently situated both for his own work and for his patients, as he is now doing the prescription work. (At your suggestion, the prescriptions are being filled by myself, with the exception of a few that the nurse fills, which arrangement is, I believe, satisfactory.)

3. I agree with Dr. Lanham in his recommendation concerning the natatorium; especially is this important during the winter months. I found the natatorium, on more than one occasion, in a very unsanitary condition, and recommend that the entire building and pool be repaired or rebuilt. A gymnasium in connection, as Dr. Lanham suggests, would be beneficial to the health of the cadets.

4. Some of the complaints of the cadets are very trivial, and it will be my endeavor to discourage their taking so much medicine, and encourage the prevention of these minor ailments by the proper personal hygiene. It is a dangerous precedent to establish to encourage young men to resort to narcotics and cathartics for every little ailment.

5. *Sewerage*.—An aseptic tank system could be built advantageously at the outlet of the sewer, such as are used in many of the Northern and Eastern institutions. I can not say at present that the arrangement now in use is detrimental to the health of the College community, but, in deference to public sentiment, it would be advisable.

6. A modern heating plant for the entire Institution seems almost a necessity.

In conclusion, I wish to state that I have found the nurse, Miss Craig, very efficient.

In the janitor's place I have employed a young white man instead of the negro formerly employed.

Respectfully submitted,

JOE GILBERT,  
Surgeon.



## ITEMIZED FINANCIAL STATEMENT.

LIST OF PROFESSORS, ASSISTANTS AND EMPLOYES, AND THE ANNUAL  
SALARY PAID EACH.

H. H. Harrington, President.....	\$4,000 00
E. J. Fermier, Professor of Mechanical Engineering.....	2,250 00
Charles Puryear, Professor of Mathematics.....	2,250 00
M. Francis, Professor of Veterinary Science.....	2,000 00
F. E. Giesecke, Prof. of Arch. Eng. and Drawing.....	2,000 00
J. C. Nagle, Professor of Civil Engineering.....	2,250 00
C. W. Hutson, Professor of History.....	1,800 00
D. W. Spence, Associate Professor of Civil Engineering.....	1,800 00
F. S. Johnston, Professor of Farm Husbandry.....	2,250 00
E. J. Kyle, Professor of Plant Husbandry.....	1,800 00
C. P. Fountain, Professor of English.....	1,800 00
O. M. Ball, Professor of Botany.....	2,000 00
N. H. Brown, Professor of Physics and Electrical Engineer- ing .....	2,500 00
H. H. Sargent, Commandant.....	570 00
Director .....	3,000 00
J. S. Wier, Director of Textile School.....	2,000 00
F. R. Marshall, Professor of Animal Husbandry.....	1,800 00
J. C. Blake, Professor of Chemistry.....	2,250 00
G. S. Fraps, Associate Professor of Aricultural Chemistry....	1,800 00
A. F. Conradi, Entomologist.....	1,400 00
C. B. Campbell, Associate Professor of Languages.....	1,500 00
R. F. Smith, Associate Professor of Mathematics.....	1,400 00
T. P. Junkin, Associate Professor of Mathematics.....	1,500 00
C. S. Potts, Associate Professor of History and Economics....	1,300 00
J. A. Lomax, Associate Professor of English.....	1,300 00
E. C. Green, Associate Professor of Plant Husbandry.....	1,300 00
N. Powell, Chaplain, Adjunct Professor of Languages.....	1,500 00
W. L. Tomasson, Instructor in Mechanical Engineering.....	1,200 00
R. L. Bennett, Cotton Expert.....	500 00
A. Mitchell, Instructor in Drawing.....	1,000 00
O. D. Hargis, Instructor in Chemistry.....	1,000 00
G. C. Embry, Instructor in English.....	1,000 00
J. B. Bagley, Instructor in Textile Engineering.....	1,000 00
J. E. Lear, Instructor in Electrical Engineering.....	1,100 00
R. P. Marsteller, Instructor in Veterinary Science.....	1,200 00
Mr. A. Snyder, Instructor in Iron Work.....	1,000 00
C. E. Bartholomew, Assistant Entomologist and Bee Keeper..	800 00
J. M. Carson, Treasurer.....	1,500 00
S. E. Andrews, Secretary, Registrar and Stenographer.....	1,200 00
J. W. King, Assistant in English.....	1,000 00
Physical Director .....	700 00
F. T. Foley, Stenographer Entomology Department.....	780 00
Secretary to Commandant.....	405 00

Plumber . . . . .	900 00
Bugler . . . . .	810 00
Assistant in E. E. Laboratory . . . . .	300 00
J. L. Thomas, Dairyman . . . . .	720 00
A. J. Neff, Superintendent of Power Plant . . . . .	1,200 00
Two Permanent Laborers . . . . .	720 00
Janitors . . . . .	1,500 00
Station Clerk . . . . .	900 00
Station Stenographer . . . . .	720 00
Student Assistant in Agriculture . . . . .	360 00
J. C. Burns, Assistant in Animal Husbandry . . . . .	1,000 00
J. S. Dean, Instructor in Drawing . . . . .	800 00
Student Assistant in Civil Engineering . . . . .	300 00
A. Thompson, Care Taker of Grounds . . . . .	800 00
Student Assistant in Mathematics . . . . .	300 00
Stenographer, Clerk Chemical Department . . . . .	600 00
S. E. Asbury, Assistant State Chemist . . . . .	1,100 00
L. McLennan, Assistant Chemist . . . . .	900 00
J. T. Cruse, Assistant Chemist . . . . .	800 00
Elmer Carlyle, Assistant Chemist . . . . .	700 00
W. H. Thomas, Assistant in English . . . . .	1,000 00
J. W. Kidd, Assistant in Electrical Engineering . . . . .	1,000 00
H. R. Weber, Instructor in Free Hand Drawing . . . . .	1,000 00

## Maintenance and Support Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Oct. 22, 1904	187	Salary .....	D. F. Houston.....	\$ 41 66
	188	Salary .....	S. E. Gideon.....	155 55
	189	Salary .....	T. C. Bittle.....	200 00
	190	Salary .....	J. G. Platt.....	100 00
	191	Salary .....	G. C. Embry.....	100 00
	192	Salary .....	A. Mitchell.....	88 88
	193	Salary .....	V. H. Foy.....	80 00
	194	Salary .....	C. S. Potts.....	144 44
	195	Salary .....	F. S. Johnston.....	104 16
	196	Salary .....	J. H. Rietz.....	133 33
	197	Salary .....	G. S. Fraps.....	43 33
	198	Salary .....	W. C. Martin.....	133 33
	199	Salary .....	F. R. Marshall.....	150 00
	200	Salary .....	R. L. Bennett.....	41 66
	201	Salary .....	O. M. Ball.....	222 22
	202	Salary .....	N. H. Brown.....	277 77
	203	Salary .....	D. W. Spence.....	200 00
	204	Salary .....	J. S. Wier.....	166 66
	205	Salary .....	Ira Cain.....	75 00
	206	Salary .....	E. D. Sanderson.....	145 83
	207	Salary .....	A. F. Conradi.....	83 33
	208	Salary .....	L. Scholl.....	66 66
	209	Salary .....	F. Foley.....	50 00
	210	Salary .....	C. P. Fountain.....	166 66
	211	Salary .....	J. W. Carson.....	125 00
	212	Salary .....	M. Francis.....	111 11
	213	Salary .....	F. Post.....	45 00
	214	Salary .....	J. R. Robertson.....	125 00
	215	Salary .....	George Groupe.....	90 00
	216	Salary .....	W. G. Drummond.....	60 00
	224	Contingent.....	A. E. Withers.....	29 38
	225	Contingent.....	H. C. Ivey.....	47 50
Nov. 4, 1904	294	Mechanical engineering.....	F. W. Heitman & Co.....	83 85
Nov. 22, 1904	405	Salary .....	D. F. Houston.....	41 66
	406	Salary .....	S. E. Gideon.....	155 55
	407	Salary .....	T. C. Bittle.....	200 00
	408	Salary .....	J. E. Platt.....	100 00
	409	Salary .....	G. C. Embry.....	100 00
	410	Salary .....	A. Mitchell.....	88 88
	411	Salary .....	V. H. Foy.....	80 00
	412	Salary .....	C. S. Potts.....	144 45
	413	Salary .....	F. S. Johnson.....	104 16
	414	Salary .....	J. H. Rietz.....	133 33
	415	Salary .....	G. S. Fraps.....	43 33
	416	Salary .....	W. C. Martin.....	133 33
	417	Salary .....	F. R. Marshall.....	108 33
	418	Salary .....	R. L. Bennett.....	41 66
	419	Salary .....	O. M. Ball.....	222 22
	420	Salary .....	N. H. Brown.....	277 77
	421	Salary .....	D. W. Spence.....	200 00
	422	Salary .....	J. S. Wier.....	166 66
	423	Salary .....	Ira Cain.....	75 00
	424	Salary .....	E. D. Sanderson.....	145 83
	425	Salary .....	A. F. Conradi.....	83 33
	426	Salary .....	F. Foley.....	5 00
	427	Salary .....	F. Foley.....	55 00
	428	Salary .....	C. P. Fountain.....	166 66
	429	Salary .....	J. W. Carson.....	125 00
	430	Salary .....	M. Francis.....	111 11
	431	Salary .....	W. G. Drummond.....	60 00
	432	Salary .....	F. Post.....	45 00
	433	Salary .....	Pierre Day.....	81 00
	542	Mechanical engineering.....	I. & G. N. Ry. Co.....	39
	543	Contingent.....	I. & G. N. Ry. Co.....	39
Nov. 24, 1904	544	Per. labor on campus.....	Sam Buchanan.....	52 00
	545	Care of grounds.....	Aug. Thompson et al.....	65 35
	546	Care of grounds.....	J. C. Burnes.....	25 00
	547	Entomological expenses ..	L. H. Scholl.....	5 65
	548	Contingent.....	Pacific Express Co.....	25
	549	Contingent.....	W. C. Boyett, P. M.....	2 00
	550	Contingent.....	W. C. Boyett, P. M.....	10 60
	551	Contingent.....	W. C. Boyett, P. M.....	3 00
	552	Contingent.....	I. & G. N. Ry. Co.....	25
	553	Contingent.....	I. & G. N. Ry. Co.....	71
	554	Contingent.....	W. U. T. & T. Co.....	2 59
	555	Contingent.....	W. F. Express Co.....	30
	556	Contingent.....	W. F. Express Co.....	1 35



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 24, 1904	557	Contingent.....	W. F. Express Co.....	\$ 40
	558	Contingent.....	Pacific Express Co.....	25
	559	Contingent.....	Pacific Express Co.....	25
	560	Contingent.....	Louis Parks.....	14 55
	561	Contingent.....	Tom Hudson.....	21 15
Nov. 25, 1904	562	Botanical.....	Pacific Express Co.....	40
	563	Botanical.....	W. C. Boyett, P. M. ....	2 00
	564	Botanical.....	Central Railway.....	2 27
	565	Botanical.....	O. M. Ball.....	2 00
	566	Botanical.....	W. F. Express Co.....	1 00
	567	Traveling expenses.....	J. G. Harrison.....	27 20
	568	Farmers' Institutes.....	W. C. Boyett, P. M. ....	2 00
	569	Steam plant.....	I. & G. N. Ry. Co.....	3 20
	570	Steam plant.....	I. & G. N. Ry. Co.....	2 22
	571	Steam plant.....	I. & G. N. Ry. Co.....	4 08
	572	Steam plant.....	I. & G. N. Ry. Co.....	42
	573	Steam plant.....	I. & G. N. Ry. Co.....	1 80
	574	Steam plant.....	George Grupe et al.....	39 30
	575	Steam plant.....	H. & T. C. Ry. Co.....	42
	576	Steam plant.....	H. & T. C. Ry. Co.....	2 60
	577	Drawing.....	I. & G. N. Ry. Co.....	2 12
	578	Drawing.....	W. C. Boyett.....	3 18
	579	Mechanical engineering.....	Wm. Goryzcki.....	35 00
	580	Mechanical engineering.....	W. F. Express Co.....	60
	581	Military.....	J. T. Hanway.....	25
	582	Military.....	W. F. Express Co.....	1 65
Nov. 24, 1904	283	Contingent.....	S. E. Andrews.....	29 97
	584	Contingent.....	S. E. Andrews.....	100 00
	588	Janitors.....	John Royall et al.....	147 30
	589	Janitors.....	G. W. Buchanan et al.....	77 00
	590	Steam plant.....	R. B. McLavy et al.....	357 40
	605	Board expenses.....	K. K. Legett.....	26 40
	606	Board expenses.....	W. J. Clay.....	4 50
Nov. 28, 1904	607	Salary.....	D. F. Houston.....	41 66
	608	Salary.....	S. E. Gideon.....	155 55
	609	Salary.....	T. C. Bittle.....	200 00
	610	Salary.....	J. E. Platt.....	100 00
	611	Salary.....	G. C. Embry.....	100 00
	612	Salary.....	A. Mitchell.....	88 88
	613	Salary.....	V. H. Foy.....	80 00
	614	Salary.....	C. S. Potts.....	144 45
	615	Salary.....	F. S. Johnston.....	104 16
	616	Salary.....	J. H. Rietz.....	133 33
	617	Salary.....	G. S. Fraps.....	43 33
	618	Salary.....	W. C. Martin.....	133 33
	619	Salary.....	F. R. Marshall.....	108 33
	620	Salary.....	R. L. Bennett.....	41 66
	621	Salary.....	O. M. Ball.....	222 22
	622	Salary.....	N. H. Brown.....	277 77
	623	Salary.....	D. W. Spence.....	200 00
	624	Salary.....	J. S. Wier.....	166 66
	625	Salary.....	Ira Cain.....	75 00
	626	Salary.....	A. F. Conradi.....	83 33
	627	Salary.....	F. Foley.....	55 00
	628	Salary.....	C. P. Fountain.....	166 66
	929	Salary.....	J. W. Carson.....	125 00
	630	Salary.....	M. Francis.....	111 11
	631	Salary.....	W. G. Drummond.....	60 00
	632	Salary.....	F. Post.....	45 00
	633	Salary.....	Pierre Day.....	9 00
	634	Salary.....	Pierre Day.....	90 00
Dec. 12, 1904	643	Steam plant.....	Geo. F. Blake Manufacturing Co.....	2 12
	644	Steam plant.....	Wagner & Brandon.....	9 57
	645	Steam plant.....	Deane Steam Pump Co.....	44 92
	646	Steam plant.....	American Engine Sped. Co.....	200 00
	647	Steam plant.....	Troy Laundry Machine Co.....	12 70
	648	Steam plant.....	Troy Laundry Machine Co.....	33 00
	649	Steam plant.....	Alden, Spears Sons & Co.....	118 34
	650	Steam plant.....	Bonner Oil Co.....	110 20
	651	Steam plant.....	F. W. Heitman Co.....	16 70
	652	Steam plant.....	F. W. Heitman Co.....	54 92
	653	Steam plant.....	F. W. Heitman Co.....	20 11
	654	Steam plant.....	G. S. Parker.....	1 00
	655	Steam plant.....	Northern Electric Mfg. Co.....	3 69
	656	Steam plant.....	Jinkins Bros.....	4 73
	657	Steam plant.....	Garth H. & Webb.....	5 96
	658	Steam plant.....	M. H. James.....	1 25

## Maintenance and Support Account--continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Dec. 12, 1904	659	Steam plant.....	Waters Pierce Oil Co.....	\$ 14 31
	660	Steam plant.....	A. M. Lockett & Co.....	1 15
	661	Contingent.....	Clarke & Courts.....	3 70
	662	Botanical.....	Bausch & Lomb.....	1 69
	663	Contingent.....	J. L. Wortham.....	114 30
	664	Contingent.....	J. L. Wortham.....	156 25
	665	Contingent.....	E. J. Jinkins.....	90
	666	Contingent.....	G. H. & Webb.....	17 71
	667	Contingent.....	G. H. & Webb.....	4 08
	668	Contingent.....	G. H. & Webb.....	81 32
	669	Contingent.....	M. H. James.....	2 50
	670	Contingent.....	Clarke & Courts.....	3 75
	671	Contingent.....	Clarke & Courts.....	1 45
	672	Contingent.....	Albany Perforated Wrap Co.....	90 00
	673	Contingent.....	J. A. Myers.....	67 75
	674	Contingent.....	J. G. Harrison.....	9 00
	675	Contingent.....	H. C. Robinson.....	45 00
	676	Contingent.....	Western Union Telegraph Co.....	25
	677	Contingent.....	Western Union Telegraph Co.....	1 80
	678	Contingent.....	Bryan Eagle.....	2 00
	679	Contingent.....	Bryan Eagle.....	5 25
	680	Contingent.....	Bryan Eagle.....	15 80
	681	Contingent.....	Bryan Eagle.....	12 10
	682	Contingent.....	Bryan Eagle.....	4 25
	683	Contingent.....	James Bute.....	2 24
	684	Entomology.....	American Entomology Co.....	11 75
	685	Entomology.....	E. Schueizerbort.....	2 80
	686	Entomology.....	Chemical Department.....	2 60
	687	Entomology.....	W. E. Sanders.....	2 00
	688	Entomology.....	A. I. Root Co.....	11 40
	689	Entomology.....	Clarke & Courts.....	2 90
	690	Entomology.....	Bryan Eagle.....	24 65
	691	Entomology.....	W. H. Laws.....	23 60
	692	Entomology.....	Ed. Sanderson.....	23 85
	693	Entomology.....	American Entomology Society.....	4 00
	694	Civil engineering.....	G. H. Myers & Co.....	49 50
	695	Civil engineering.....	J. C. Nagle.....	30 95
	696	Civil engineering.....	G. H. & Webb.....	6 00
	697	Military.....	Tyler Haswell.....	8 80
	698	Military.....	M. C. Lilley & Co.....	26 07
	699	Military.....	Army and Navy Journal.....	4 50
	700	Military.....	Bryan Eagle.....	4 75
	701	Military.....	Clarke & Courts.....	12 00
	702	Military.....	Rudolph Wurtize & Co.....	5 80
	703	Botanical.....	Bryan Eagle.....	2 50
	704	Botanical.....	L. H. Pammel.....	3 15
	705	Botanical.....	L. Buchner.....	1 85
	706	Botanical.....	Bausch & Lomb.....	1 35
	707	Agriculture.....	Creamery Packing Co.....	22 06
	708	Care of grounds.....	G. H. & Webb.....	12 40
	730	Entomology.....	J. Allen Meyers.....	37 50
	751	Entomology.....	E. Nelson.....	8 00
	752	Entomology.....	L. D. Hull Printing Co.....	11 65
	753	Entomology.....	C. Weichsel & Co.....	4 86
	754	Entomology.....	W. Atchley.....	4 10
	755	Entomology.....	Sidney Ross Co.....	3 40
	756	Entomology.....	G. W. Ivey.....	2 85
	764	Military.....	A. & N. Register.....	6 30
	767	Wood.....	J. H. Suber.....	333 00
	768	Steam plant.....	J. H. Suber.....	193 32
	799	Salary janitors.....	F. Frank Borden.....	5 50
	800	Salary janitors.....	Sam Buchanan.....	57 65
	801	Contingent.....	Wells Fargo Express Co.....	35
	802	Contingent.....	Wells Fargo Express Co.....	40
	803	Contingent.....	H. & T. C. Ry.....	38
	804	Contingent.....	I. & G. N. Ry.....	20 29
	805	Contingent.....	Wells Fargo Express.....	1 35
	806	Contingent.....	W. C. Boyett.....	4 85
	807	Contingent.....	W. C. Boyett.....	11 60
	808	Contingent.....	W. C. Boyett.....	18 52
	809	Contingent.....	I. & G. N. Ry.....	16 20
	810	Contingent.....	I. & G. N. Ry.....	9 40
	811	Mechanical engineering.....	I. & G. N. Ry.....	39
	812	Mechanical engineering.....	W. C. Boyett.....	2 12
	813	Entomology.....	C. Buchanan.....	23 10
	814	Care of grounds.....	A. Thompson.....	55 00
	815	Steam Plant.....	Wells Fargo Express.....	1 85

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Dec. 12, 1904	816	Farmers Institutes .....	J. W. Carson.....	\$ 60 40
	818	Contingent.....	S. E. Andrews.....	100 00
	832	Steam Plant.....	G. Groupe et al.....	360 00
	838	P. & E. E.....	N. H. Brown.....	1 56
	839	P. & E. E.....	W. Lang.....	78 00
	840	P. & E. E.....	Carson & Smith.....	10 00
	841	Contingent.....	Lotman Myers Manufacturing Co..	120 50
	842	Contingent.....	Lotman Myers Manufacturing Co..	60 25
	843	Contingent.....	Lotman Myers Manufacturing Co..	3 15
	844	Contingent.....	Lotman Myers Manufacturing Co..	9 25
	845	Contingent.....	J. L. Wortham.....	77 50
	846	Contingent.....	Bryan Eagle.....	3 25
	847	Contingent.....	Bryan Eagle.....	3 25
	848	Contingent.....	Bryan Eagle.....	1 80
	849	Entomology.....	Von Boeckmann-Jones Co.....	30 80
	891	Contingent.....	Bryan Eagle.....	6 80
	892	Contingent.....	Bryan Eagle.....	3 75
Dec. 28, 1904	893	Contingent.....	Bryan Eagle.....	28 35
	894	Botanical.....	Bryan Eagle.....	2 00
	895	Physics.....	Bryan Eagle.....	24 85
	896	Library.....	Bryan Eagle.....	6 25
	904	Janitors.....	H. Royal et al.....	170 50
	905	Contingent.....	W. C. Boyett.....	127 20
	906	Mechanical engineering.....	W. Goryzki.....	35 00
	907	Veterinary.....	T. R. Carson.....	35 00
	908	Salary.....	D. F. Houston.....	41 66
	909	Salary.....	S. E. Gideon.....	155 55
	910	Salary.....	T. C. Bittle.....	200 00
	911	Salary.....	J. E. Plat.....	100 00
	912	Salary.....	G. Embry.....	100 00
	913	Salary.....	A. Mitchell.....	88 88
	914	Salary.....	V. H. Foy.....	80 00
	915	Salary.....	C. S. Potts.....	144 45
	916	Salary.....	F. S. Johnston.....	104 16
	917	Salary.....	J. H. Rietz.....	133 33
	918	Salary.....	G. S. Fraps.....	43 33
	919	Salary.....	F. R. Marshall.....	108 33
	920	Salary.....	E. L. Bennett.....	41 66
	921	Salary.....	O. M. Ball.....	222 22
	922	Salary.....	N. H. Brown.....	277 77
	923	Salary.....	D. W. Spence.....	200 00
	924	Salary.....	J. S. Wier.....	166 66
	925	Salary.....	Ira Cain.....	75 00
	926	Salary.....	A. F. Conradi.....	83 33
	927	Salary.....	F. Foley.....	55 00
	928	Salary.....	C. P. Fountain.....	166 66
	929	Salary.....	J. W. Carson.....	125 00
	930	Salary.....	M. Francis.....	111 11
	931	Salary.....	W. G. Drummond.....	60 00
	932	Salary.....	F. Post.....	45 00
	933	Salary.....	Pierre Day.....	90 00
	934	Salary.....	D. Meers.....	40 00
	935	Salary.....	J. D. Shaw.....	111 11
Jan. 10, 1905	1021	Steam Plant.....	George Grupe et al.....	295 00
	1022	Steam Plant.....	W. D. Garrett.....	44 00
	1023	Steam Plant.....	I. & G. N. Ry.....	48
	1024	Dairy.....	R. E. Thweatt.....	45 00
	1025	Horticulture.....	W. Levin.....	84 35
	1026	Horticulture.....	I. & G. N. Ry. Co.....	2 25
	1027	Horticulture.....	H. & T. C. Ry. Co.....	4 29
	1028	Horticulture.....	Farm Department.....	96 00
	1029	Care of grounds.....	A. Thompson.....	55 00
	1030	Care of grounds.....	A. Thompson.....	55 00
	1031	Care of grounds.....	Gryce & Edmonds.....	5 00
	1032	Care of grounds.....	Farm Department.....	24 00
	1033	Care of grounds.....	Farm Department.....	48 00
	1034	Veterinary.....	Tom Macey.....	5 00
	1035	Veterinary.....	H. Nickerson.....	5 00
	1036	Veterinary.....	W. J. Andrews.....	13 25
	1037	Veterinary.....	E. A. Witheas.....	3 00
	1038	Mechanical engineering.....	W. Goryzki.....	35 00
	1039	Farm husbandry.....	I. & G. N. Ry.....	16 16
	1040	Farm husbandry.....	A. B. Connor.....	25 00
	1041	Farm husbandry.....	H. & T. C. Ry.....	10 08
	1042	Farm husbandry.....	H. & T. C. Ry.....	9 64
	1043	Farm husbandry.....	Pacific Express Co.....	3 50
	1044	Farm husbandry.....	Western Electric Co.....	54 00



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 10, 1905	1045	Farmers Institutes.....	E. C Green.....	\$ 12 60
	1046	Farmers Institutes.....	E. C. Green.....	9 30
	1047	Farmers Institutes.....	E. D. Gagnier.....	9 30
	1048	Farmers Institutes.....	J. W. Carson.....	34 45
	1049	Contingent.....	W. C. Boyett.....	10 60
	1050	Contingent.....	W. C. Boyett.....	2 00
	1051	Contingent.....	Office Supply Co.....	1 00
	1052	Janitors.....	John Royall et al.....	157 00
Jan. 17, 1905	1054	Contingent.....	S. E. Andrews.....	100 00
	1055	Contingent.....	J. Allen Myers.....	148 45
	1056	Contingent.....	J. Allen Myers.....	24 10
	1057	Contingent.....	J. Allen Myers.....	3 00
	1058	Contingent.....	J. Allen Myers.....	3 15
	1059	Contingent.....	J. Allen Myers.....	10 55
	1060	Contingent.....	J. Allen Myers.....	19 55
	1061	Care of grounds.....	J. Allen Myers.....	5 15
	1062	Care of grounds.....	J. Allen Myers.....	4 60
	1063	Drawing.....	J. Allen Myers.....	1 25
	1064	Mechanical engineering.....	J. Allen Myers.....	48 05
	1065	Mechanical engineering.....	J. Allen Myers.....	13 25
	1082	Care of grounds.....	G. H. & Webb.....	5 90
	1083	Contingent.....	G. H. & Webb.....	46 44
	1084	Contingent.....	G. H. & Webb.....	1 80
	1085	Contingent.....	G. H. & Webb.....	43 29
	1086	Steam Plant.....	G. H. & Webb.....	1 70
	1087	Drawing.....	G. H. & Webb.....	2 20
	1088	Wood.....	J. H. Suber.....	265 00
	1089	Wood steam plant.....	J. H. Suber.....	323 75
	1094	Steam Plant.....	Acme Steam Pump Co.....	14 70
	1094	Steam Plant.....	Cook Well Co.....	48 80
	1095	Steam Plant.....	G. F. Blake Manufacturing Co.....	4 70
	1096	Steam Plant.....	Waters Pierce Oil Co.....	46 76
	1097	Steam Plant.....	Carson, Sewall Co.....	1 25
	1098	Mechanical engineering.....	Bryan Eagle.....	6 25
	1099	Mechanical engineering.....	F. W. Heitmann & Co.....	49 57
	1100	Mechanical engineering.....	F. W. Heitmann & Co.....	44 25
	1101	Horticulture.....	Clucas & Buddington Co.....	10 28
	1102	Horticulture.....	Dr. C. F. Pugh.....	Void
	1103	Horticulture.....	E. C. Shelbourn & Co.....	10 00
	1104	Horticulture.....	Bryan Eagle.....	Void
	1105	Horticulture.....	N. M. McDugal.....	75
	1106	Botanical.....	Cambridge Botanical Supply Co.....	4 50
	1107	Botanical.....	Tory Botanical Club.....	3 00
	1108	Veterinary.....	J. L. Hearne.....	4 10
	1109	Veterinary.....	Hill Bros. & Co.....	55 95
	1110	Veterinary.....	M. Francis.....	8 80
	1111	Veterinary.....	J. M. Phillips.....	6 00
	1112	Veterinary.....	W. R. Jenkins.....	3 00
	1113	Farmers Institute.....	Bryan Eagle.....	25 25
	1114	Military.....	Thos. Groben & Co.....	2 59
	1115	Military.....	T. Haswell.....	4 55
	1116	Military.....	Bryan Eagle.....	10 75
	1117	Care of grounds.....	W. D. Miller.....	10 00
	1118	Contingent.....	Mace W. Co.....	1 12
	1119	Contingent.....	E. J. Jenkins.....	Void
	1120	Contingent.....	A. B. Dick & Co.....	5 65
	1121	Contingent.....	T. Haswell.....	3 95
	1122	Contingent.....	T. Haswell.....	16 00
	1123	Contingent.....	C. F. Hawk et al.....	6 65
	1124	Contingent.....	Mosher Manufacturing Co.....	7 40
	1125	Contingent.....	N. Randolph & Sons.....	1 70
	1126	Contingent.....	C. S. & T. Bering.....	8 08
	1127	Contingent.....	E. J. Jenkins.....	48 70
	1128	Contingent.....	Bryan Eagle.....	18 50
	1129	Contingent.....	Bryan Eagle.....	9 10
	1130	Contingent.....	Bryan Eagle.....	5 00
	1131	Contingent.....	Clarke & Courts.....	59 90
	1132	Drawing.....	E. Dietzgen & Co.....	47 92
	1133	Drawing.....	E. Dietzgen & Co.....	124 76
	1134	Drawing.....	F. E. Glesecke.....	30 92
	1 35	Entomology.....	T. Haswell.....	3 50
	1136	Entomology.....	J. T. Hanway.....	1 25
	1137	Entomology.....	Bryan Eagle.....	3 75
	1138	Entomology.....	Bryan Eagle.....	2 00
	1139	Entomology.....	J. Mann's Engraving Co.....	65
	1140	Entomology.....	So. Ptg. Supply Co.....	2 15
	1141	Civil engineering.....	C. H. Myers & Co.....	74 50

Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 17, 1905	1142	Botanical.....	O. M. Ball.....	\$ 4 54
	1143	Botanical.....	Lemcke & Buchner.....	2 22
	1144	Botanical.....	Lemcke & Buchner.....	1 28
	1145	Botanical.....	Bosch & Lomb.....	30 31
	1146	Botanical.....	Bosch & Lomb.....	28 75
	1147	Library.....	Library Bureau.....	2 25
	1148	Library.....	A. C. McClurg & Co.....	87 64
	1149	Electrical engineering.....	Wells Fargo Express Co.....	80
	1150	Electrical engineering.....	Wells Fargo Express Co.....	45
	1151	Electrical engineering.....	I. & G. F. Railway Co.....	1 57
	1152	Electrical engineering.....	H. & T. C. Railway Co.....	1 83
	1153	Electrical engineering.....	Wells Fargo Express Co.....	6 80
	1154	Electrical engineering.....	Pacific Express Co.....	85
	1155	Electrical engineering.....	Bryan Telephone Co.....	13 50
	1156	Electrical engineering.....	G. H. & Webb.....	39 12
	1157	Electrical engineering.....	T. Haswell.....	75
	1158	Electrical engineering.....	Bryan Eagle.....	17 45
	1242	Library.....	Baker & Taylor & Co.....	98
	1243	Library.....	Baker & Taylor & Co.....	2 25
Jan. 30, 1905	1245	Salary.....	D. F. Houston.....	41 66
	1246	Salary.....	S. E. Gideon.....	155 55
	1247	Salary.....	T. O. Bittle.....	200 00
	1248	Salary.....	J. E. Platt.....	100 00
	1249	Salary.....	G. C. Embry.....	100 00
	1250	Salary.....	A. Mitchell.....	88 88
	1251	Salary.....	V. H. Foy.....	80 00
	1252	Salary.....	C. S. Potts.....	144 45
	1253	Salary.....	F. S. Johnston.....	104 16
	1254	Salary.....	J. H. Rietz.....	133 33
	1255	Salary.....	G. S. Fraps.....	43 33
	1256	Salary.....	O. D. Hargis.....	100 00
	1257	Salary.....	F. R. Marshall.....	108 33
	1258	Salary.....	R. L. Bennett.....	81 66
	1259	Salary.....	O. M. Ball.....	222 22
	1260	Salary.....	N. H. Brown.....	27 77
	1261	Salary.....	D. W. Spence.....	200 00
	1262	Salary.....	J. S. Wier.....	166 66
	1263	Salary.....	Ira Cain.....	75 00
	1264	Salary.....	A. F. Conradi.....	83 33
	1265	Salary.....	F. Foley.....	55 00
	1266	Salary.....	C. P. Fountain.....	166 66
	1267	Salary.....	J. W. Carson.....	125 00
	1268	Salary.....	M. Francis.....	111 11
	1269	Salary.....	W. G. Drummond.....	60 00
	1270	Salary.....	F. Post.....	45 00
	1271	Salary.....	P. Day.....	90 00
	1272	Salary.....	D. Meers.....	75 00
	1273	Salary.....	J. D. Shaw.....	111 11
	1274	Salary.....	R. H. Whitlock.....	187 50
	1275	Salary.....	Charles Puryear.....	187 50
	1276	Salary.....	H. H. Harrington.....	125 00
	1277	Salary.....	J. C. Nagle.....	187 50
	1278	Salary.....	F. E. Giesecke.....	125 00
	1279	Salary.....	E. J. Kyle.....	48 75
	1280	Salary.....	E. C. Green.....	40 62
	1281	Salary.....	R. F. Smith.....	116 65
	1282	Salary.....	T. P. Junkin.....	116 65
	1283	Salary.....	J. A. Lomax.....	108 35
	1284	Salary.....	C. B. Campbell.....	89 20
	1285	Salary.....	L. Scholl.....	66 66
Jan. 31, 1905	1330	Contingent.....	J. T. Brown.....	325 80
	1400	Contingent.....	S. E. Andrews.....	100 00
	1401	Veterinary.....	J. M. Borskie.....	5 00
	1402	Veterinary.....	Joe Jefferson.....	5 00
	1403	Veterinary.....	T. R. Carson.....	35 00
	1404	Veterinary.....	Roland Durand.....	5 00
	1405	Horticulture.....	E. C. Green.....	2 00
	1406	Animal husbandry.....	J. C. Burns.....	50 00
	1407	Animal husbandry.....	I. & G. N. Railway Co.....	9 45
	1408	Animal husbandry.....	I. & G. N. Railway Co.....	19 60
	1409	Animal husbandry.....	Farm Husbandry.....	1 15
	1410	Animal husbandry.....	Pacific Express Co.....	1 00
	1411	Care of grounds.....	Wells Fargo Express Co.....	2 20
	1412	Military.....	Wells Fargo Express Co.....	1 00
	1413	Military.....	Major R. H. Russell.....	19 07
	1414	Military.....	H. & T. C. Railway Co.....	2 98
	1415	Mechanical engineering.....	I. & G. N. Railway Co.....	34

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 3	905	1416 Mechanical engineering.....	W. Goryzcki.....	\$ 3 00
		1417 Farmers' institutes.....	E. C. Green.....	7 95
		1418 Farmers' institutes.....	J. W. Carson.....	29 45
		1419 Farmers' institutes.....	J. W. Carson.....	25 05
		1420 Farmers' institutes.....	W. O. Boyett.....	4 00
		1421 Steam plant.....	I. & G. N. Railway Co.....	13 46
		1422 Steam plant.....	Wells Fargo Express Co.....	1 15
		1423 Steam plant.....	Geo. Grupe et al.....	360 00
		1424 Contingent.....	Pacific Express Co.....	1 00
		1425 Contingent.....	Pacific Express Co.....	55
		1426 Contingent.....	I. & G. N. Railway Co.....	2 40
Feb. 7, 1905		1427 Contingent.....	I. & G. N. Railway Co.....	35
		1428 Contingent.....	Wells Fargo Express Co.....	30
		1429 Contingent.....	Wells Fargo Express Co.....	25
		1430 Contingent.....	Wells Fargo Express Co.....	1 15
		1431 Contingent.....	Wells Fargo Express Co.....	3 45
		1432 Contingent.....	Wells Fargo Express Co.....	35
		1433 Contingent.....	W. C. Boyett.....	2 00
		1434 Contingent.....	H. & T. C. Railway Co.....	50
		1435 Contingent.....	H. & T. C. Railway Co.....	50
		1436 Contingent.....	J. J. Pastoriza Co.....	65
		1460 Care of grounds.....	Aug. Thompson.....	55 00
		1461 Care of grounds.....	Grice & Edmonds.....	3 00
		1462 Contingent.....	W. C. Boyett.....	3 00
		1463 Contingent.....	H. & T. C. Railway Co.....	11 70
		1464 Farm husbandry.....	A. B. Connor.....	25 00
		1465 Farm husbandry.....	H. & T. C. Railway Co.....	13 89
		1466 Steam plant.....	I. & G. N. Railway Co.....	1 39
		1467 Veterinary.....	Squire Turner.....	5 00
		1468 Veterinary.....	T. R. Carson.....	35 00
		1469 Animal husbandry.....	John C. Burns.....	50 00
		1470 Military.....	W. C. Boyett.....	5 00
		1471 Laborers.....	S. Buchanan et al.....	60 00
		1472 Janitors.....	L. Sessums et al.....	189 75
		1473 Janitors.....	J. H. Royall.....	12 50
Feb. 12, 1905		1497 Entomology.....	Macey Vernicke Co.....	18 35
		1501 Wood barracks.....	J. H. Suber.....	123 95
		1502 Wood barracks.....	J. H. Suber.....	238 65
Feb. 14, 1905		1504 Military.....	M. C. Lilley & Co.....	12 51
Feb. 20, 1905		1505 Entomology.....	Irish Bee Journal.....	3 50
		1506 Entomology.....	Bausch & Lomb.....	4 83
		1507 Entomology.....	Clarke & Courts.....	4 55
		1508 Entomology.....	Electric Light and Ice account.....	7 21
		1509 Entomology.....	Texas Experiment Station.....	2 80
		1510 Entomology.....	The Sidney Ross Co.....	7 20
		1511 Entomology.....	A. F. Conradi.....	10 00
		1512 Entomology.....	A. F. Conradi.....	44 77
		1513 Entomology.....	C. E. Sanborn.....	13 30
		1514 Farmers' institutes.....	J. K. Robertson.....	4 50
		1515 Library.....	Dodd, Meade & Co.....	112 00
		1516 Library.....	Tyler Haswell.....	158 40
		1517 Library.....	The Hammond Typewriter Co.....	2 50
		1518 Steam plant.....	American Well Works.....	4 75
		1519 Steam plant.....	Troy Laundry Machine Co.....	85
		1520 Steam plant.....	American Engine Co.....	79
		1521 Steam plant.....	Alden Spears Sons Co.....	41 87
		1522 Veterinary.....	Hill Bros. & Co.....	4 90
		1523 Veterinary.....	Hill Bros. & Co.....	7 50
		1524 Veterinary.....	James & Castles.....	10 00
		1525 Veterinary.....	B. F. Salyer.....	5 00
		1526 Veterinary.....	T. C. Bittle.....	5 00
		1527 Veterinary.....	Cole Hardware Co.....	3 75
		1528 Veterinary.....	Webb Bros.....	1 14
		1529 Veterinary.....	E. J. Jenkins.....	14 80
		1530 Care of grounds.....	J. T. Hanway.....	2 00
		1531 Botanical.....	Bausch & Lomb.....	12 47
		1532 Mechanical engineering.....	F. W. Heitman & Co.....	9 47
		1533 Veterinary.....	Brinley Bros.....	1 50
		1534 Contingent.....	A. B. Dick & Co.....	3 25
		1535 Contingent.....	Clarke & Courts.....	10 10
		1536 Contingent.....	J. L. Johnson.....	132 30
		1538 Contingent.....	W. C. Boyett.....	2 00
		1539 Contingent.....	Bryan Eagle.....	12 75
		1540 Contingent.....	American Arithmometer Co.....	3 00
		1541 Farm husbandry.....	Bryan Eagle.....	2 50
		1542 Farm husbandry.....	J. H. Sanders Publishing Co.....	3 50
		1543 Farm husbandry.....	Creamery Package Co.....	56 72



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Feb. 20, 1905	1544	Farm husbandry.....	Bryan Eagle.....	\$ 9 78
	1545	Farm husbandry.....	The Official Catalog Co.....	60
	1606	Steam plant.....	Cole Hardware Co.....	12 10
	1607	Steam plant.....	M. H. James.....	1 75
	1608	Steam plant.....	Deane Steam Pump Co.....	38 00
Feb. 28, 1905	1667	Library.....	H. & T. C. Ry. Co.....	1 57
	1668	Veterinary.....	Silas Martin.....	1 50
	1669	Steam plant.....	H. & T. C. Ry. Co.....	57
	1670	Farmers' institutes.....	E. C. Green.....	18 50
	1671	Animal husbandry.....	H. & T. C. Ry. Co.....	2 95
	1672	Contingent.....	Wells Fargo Express Co.....	1 60
	1673	Contingent.....	H. O. Boatwright.....	50
	1674	Contingent.....	J. A. Myers.....	40
	1675	Farm husbandry.....	H. & T. C. Ry. Co.....	5 22
	1676	Farm husbandry.....	F. S. Johnston.....	6 30
	1677	Janitors.....	W. De Hart.....	16 50
	1715	Salary.....	D. F. Houston.....	41 66
	1716	Salary.....	S. E. Gideon.....	155 55
	1717	Salary.....	T. C. Bittle.....	200 00
	1718	Salary.....	J. E. Platt.....	100 00
	1719	Salary.....	G. C. Embry.....	100 00
	1720	Salary.....	A. Mitchell.....	88 88
	1721	Salary.....	V. H. Foy.....	80 00
	1722	Salary.....	C. S. Potts.....	144 45
	1723	Salary.....	F. S. Johnston.....	104 16
	1724	Salary.....	J. H. Rietz.....	133 33
	1725	Salary.....	G. S. Fraps.....	43 33
	1726	Salary.....	O. D. Hargis.....	100 00
	1727	Salary.....	F. R. Marshall.....	108 33
	1728	Salary.....	R. L. Bennett.....	41 66
	1729	Salary.....	O. M. Ball.....	222 22
	1730	Salary.....	N. H. Brown.....	277 77
	1731	Salary.....	D. W. Spence.....	200 00
	1732	Salary.....	J. S. Wier.....	166 66
	1733	Salary.....	Ira Cain.....	75 00
	1734	Salary.....	A. F. Conradl.....	83 33
	1735	Salary.....	F. T. Foley.....	55 00
	1736	Salary.....	C. P. Fountain.....	166 66
	1737	Salary.....	J. W. Carson.....	125 00
	1738	Salary.....	M. Francis.....	111 11
	1739	Salary.....	W. G. Drummond.....	60 00
	1740	Salary.....	F. Post.....	45 00
	1741	Salary.....	P. Day.....	90 00
	1742	Salary.....	D. Meers.....	75 00
	1743	Salary.....	J. D. Shaw.....	111 11
	1744	Salary.....	R. H. Whitlock.....	187 50
	1745	Salary.....	Charles Puryear.....	187 50
	1746	Salary.....	H. H. Harrington.....	125 00
	1747	Salary.....	J. C. Nagle.....	187 50
	1748	Salary.....	F. E. Giesecke.....	125 00
	1749	Salary.....	E. J. Kyle.....	48 75
	1750	Salary.....	E. C. Green.....	40 62
	1751	Salary.....	R. F. Smith.....	116 65
	1752	Salary.....	T. P. Junkin.....	116 65
	1753	Salary.....	J. A. Lomax.....	108 35
	1754	Salary.....	C. B. Campbell.....	89 20
	1782	Wood.....	J. H. Suber.....	387 11
	1796	Contingent.....	S. E. Andrews.....	100 00
Mar. 12, 1905	1809	Botanical.....	O. M. Ball.....	6 05
	1810	Botanical.....	The Bryan Eagle.....	2 65
	1811	Steam plant.....	W. P. Oil Co.....	43 18
	1812	Steam plant.....	J. Allen Myers.....	40
	1813	Military.....	T. Haswell.....	25
	1814	Military.....	Carl Fischer.....	5 62
	1815	Military.....	Carl Fischer.....	3 16
	1816	Entomology.....	G. H. Pittman.....	3 00
	1817	Entomology.....	The Bryan Eagle.....	2 00
	1818	Entomology.....	G. H. & Webb.....	99
	1819	Entomology.....	Remington Typewriter Co.....	3 50
	1820	Entomology.....	A. H. Thomas.....	5 22
	1821	Entomology.....	Andrews & Church.....	6 00
	1822	Entomology.....	Whitall-Tatum Co.....	5 26
	1823	Entomology.....	F. W. Mally Co.....	10 15
	1824	Contingent.....	Bryan Eagle.....	6 30
	1825	Contingent.....	Bryan Eagle.....	3 75
	1826	Contingent.....	J. A. Myers.....	43 20
	1827	Contingent.....	Hill Bros. & Co.....	22 45

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Mar. 12, 1905	1828	Contingent.....	Austin Book and Stationery Co.....	\$ 2 50
	1829	Contingent.....	G. S. Parker.....	7 20
	1830	Contingent.....	Peden Iron & Steel Co.....	16 30
	1831	Phys. and elec. engr.....	N. H. Brown.....	5 85
	1832	Phys. and elec. engr.....	Wilyormg & Gibson Co.....	3 16
	1833	Phys. and elec. engr.....	Bryan Eagle.....	5 75
	1834	Phys. and elec. engr.....	J. A. Myers.....	33 88
	1835	Phys. and elec. engr.....	W. C. Boyett.....	10 90
	1836	Phys. and elec. engr.....	Goff, Horner & Co.....	16 58
	1837	Phys. and elec. engr.....	Tyler Haswell.....	1 25
	1838	Phys. and elec. engr.....	D. Van Nostrand Co.....	8 87
	1839	Phys. and elec. engr.....	Electric Club Journal.....	2 00
	1840	Phys. and elec. engr.....	Duncan-Hobson Elect. Co.....	7 60
	1841	Phys. and elec. engr.....	American Insulating Co.....	13 60
	1842	Phys. and elec. engr.....	Western Electrician.....	2 95
	1843	Veterinary.....	Navasota Examiner.....	80
	1844	Veterinary.....	J. A. Myers.....	80
	1845	Civil engineering.....	J. A. Myers.....	1 50
	1846	Library.....	Clarke & Courts.....	5 00
	1847	Library.....	Harper & Brothers.....	34 68
	1848	Library.....	D. C. Heath & Co.....	33 48
	1849	Drawing.....	F. E. Giesecke.....	46 48
	1851	Care of grounds.....	Aug. Thompson.....	55 00
	1852	Horticulture.....	Wm. Lemm et al.....	61 00
	1853	Library.....	I. & G. N. Ry. Co.....	7 85
	1854	Library.....	Ira Cain.....	13 45
	1855	Farm husbandry.....	A. B. Conner.....	25 00
	1856	Farm husbandry.....	H. & T. C. Ry. Co.....	10 60
	1857	Farm husbandry.....	H. & T. C. Ry. Co.....	34 71
	1858	Farm husbandry.....	H. & T. C. Ry. Co.....	38
	1859	Farm husbandry.....	I. & G. N. Ry. Co.....	3 43
	1860	Farm husbandry.....	I. & G. N. Ry. Co.....	1 77
	1861	Farm husbandry.....	I. & G. N. Ry. Co.....	2 95
	1862	Farm husbandry.....	Pacific Express Co.....	7 01
	1863	Farm husbandry.....	Pacific Express Co.....	95
	1864	Farm husbandry.....	W. F. Express Co.....	45
	1865	Farm husbandry.....	W. F. Express Co.....	3 25
	1866	Farmers' institutes.....	J. W. Carson.....	49 60
	1867	Farmers' institutes.....	E. C. Green.....	6 50
	1868	Farmers' institutes.....	E. J. Kyle.....	14 10
	1869	Contingent.....	W. C. Boyett.....	2 00
	1870	Contingent.....	W. F. Express Co.....	6 75
	1871	Contingent.....	Pacific Express Co.....	8 25
	1872	Contingent.....	H. & T. C. Ry. Co.....	25
	1873	Contingent.....	W. F. Express Co.....	40
	1874	Contingent.....	W. F. Express Co.....	1 35
	1875	Contingent.....	W. F. Express Co.....	2 10
	1876	Contingent.....	I. H. Newton.....	86 75
	1877	Contingent.....	Pacific Express Co.....	35
	1878	Contingent.....	Pacific Express Co.....	30
	1879	Mechanical engineering.....	Pacific Express Co.....	70
	1880	Contingent.....	W. C. Boyett.....	5 50
	1881	Contingent.....	N. Randolph & Son.....	27 12
	1882	Steam plant.....	George Grupe et al.....	356 40
	1883	Steam plant.....	I. & G. N. Ry. Co.....	1 24
	1884	Steam plant.....	H. & T. C. Ry. Co.....	33
	1885	Veterinary.....	Henry Childress.....	5 00
	1886	Veterinary.....	T. R. Carson.....	35 00
	1887	Janitors.....	G. W. Buchanan et al.....	255 50
	1888	Laborers.....	S. Buchanan et al.....	60 00
Mar. 20, 1905	2024	Wood.....	J. H. Suber.....	55 55
	2025	Wood.....	J. H. Suber.....	218 75
	2058	Contingent.....	Wells Fargo Express Co.....	25
	2059	Contingent.....	H. & T. C. Ry. Co.....	1 65
	2060	Contingent.....	W. C. Boyett.....	2 00
	2061	Contingent.....	Pacific Express Co.....	25
	2062	Contingent.....	Pacific Express Co.....	25
	2063	Contingent.....	Pacific Express Co.....	25
	2064	Contingent.....	Pacific Express Co.....	65
	2065	Steam plant.....	H. & T. C. Ry. Co.....	1 06
	2066	Steam plant.....	Pacific Express Co.....	2 60
	2067	Steam plant.....	Pacific Express Co.....	2 00
	2068	Steam plant.....	W. U. Tel. Co.....	90
	2069	Mechanical engineering.....	Wells Fargo Express Co.....	75
	2070	Mechanical engineering.....	Mathew Davis.....	2 00
	2071	Mechanical engineering.....	Wm. Gorzycki.....	35 00
	2072	Mechanical engineering.....	Pacific Express Co.....	1 35

Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Mar. 20, 1905	2073	Mechanical engineering....	Pacific Express Co.....	\$ 25
	2074	Farm husbandry.....	I. & G. N. Ry. Co.....	1 39
	2075	Farm husbandry.....	I. & G. N. Ry. Co.....	5 94
	2076	Farm husbandry.....	I. & G. N. Ry. Co.....	30 72
	2077	Farm husbandry.....	I. & G. N. Ry. Co.....	4 15
	2078	Farm husbandry.....	H. & T. C. Ry. Co.....	2 32
	2079	Farm husbandry.....	H. & T. C. Ry. Co.....	2 75
	2080	Animal husbandry.....	John Ashton.....	20 00
	2081	Animal husbandry.....	I. & G. N. Ry. Co.....	1 57
	2082	Library.....	Wells Fargo Express Co.....	2 56
	2083	Library.....	I. & G. N. Ry. Co.....	1 57
	2084	Horticultural.....	E. J. Kyle.....	5 39
	2085	Electrical engineering.....	I. & G. N. Ry. Co.....	4 96
Mar. 31, 1905	2092	Salary.....	D. F. Houston.....	41 66
	2093	Salary.....	S. E. Gideon.....	155 55
	2094	Salary.....	T. C. Bittle.....	200 00
	2095	Salary.....	G. C. Embry.....	100 00
	2096	Salary.....	A. Mitchell.....	88 88
	2097	Salary.....	V. H. Poy.....	80 00
	2098	Salary.....	C. S. Potts.....	144 45
	2099	Salary.....	F. S. Johnston.....	104 16
	2100	Salary.....	J. H. Rietze.....	133 33
	2101	Salary.....	G. S. Frapps.....	43 33
	2102	Salary.....	O. D. Hargis.....	100 00
	2103	Salary.....	F. R. Marshall.....	108 33
	2104	Salary.....	R. L. Bennett.....	41 66
	2105	Salary.....	O. M. Ball.....	222 22
	2106	Salary.....	N. H. Brown.....	277 77
	2107	Salary.....	D. W. Spence.....	200 00
	2108	Salary.....	J. S. Wier.....	166 66
	2109	Salary.....	I. Cain.....	75 00
	2110	Salary.....	A. F. Conradi.....	83 33
	2111	Salary.....	F. T. Foley.....	55 00
	2112	Salary.....	C. P. Fountain.....	166 66
	2113	Salary.....	J. W. Jarson.....	125 00
	2114	Salary.....	M. Francis.....	111 11
	2115	Salary.....	W. G. Drummond.....	60 00
	2116	Salary.....	F. Post.....	45 00
	2117	Salary.....	P. Day.....	90 00
	2118	Salary.....	D. Meers.....	75 00
	2119	Salary.....	J. D. Shaw.....	111 11
	2120	Salary.....	R. H. Whitlock.....	187 50
	2121	Salary.....	Charles Puryear.....	187 50
	2122	Salary.....	H. H. Harrington.....	125 00
	2123	Salary.....	J. O. Nagle.....	187 50
	2124	Salary.....	F. E. Giesecke.....	125 00
	2125	Salary.....	E. J. Kyle.....	48 75
	2126	Salary.....	E. C. Green.....	40 62
	2127	Salary.....	R. F. Smith.....	116 65
	2128	Salary.....	T. P. Junkin.....	116 65
	2129	Salary.....	J. A. Lomax.....	108 35
	2130	Salary.....	C. B. Campbell.....	89 20
	2131	Salary.....	Burt Spencer.....	50 00
	2171	Steam plant, wood.....	J. H. Suber.....	135 51
Apr. 10, 1905	2172	Contingent.....	S. E. Andrews.....	100 00
	2211	Entomology.....	Whitall Tatum Co.....	1 20
	2212	Entomology.....	E. Leitz.....	5 20
	2213	Entomology.....	F. W. Heitman Co.....	6 57
	2214	Entomology.....	C. Weischell & Co.....	2 17
	2215	A. F. Conradi.....	C. Weischell & Co.....	57 12
	2216	Contingent.....	T. Haswell.....	3 25
	2217	Contingent.....	Reichardt & Sellhorst.....	58 15
	2218	Contingent.....	Bryan Eagle.....	5 00
	2219	Contingent.....	Assn. American Agri. Coll., etc.....	15 00
	2220	Contingent.....	J. L. Johnson.....	24 15
	2221	Contingent.....	J. A. Myers.....	16 10
	2222	Contingent.....	G. H. & Webb.....	5 90
	2223	Contingent.....	G. H. & Webb.....	3 20
	2224	Contingent.....	J. A. Myers.....	6 43
	2225	Military.....	Rudolph Wurlitzer Co.....	60
	2226	Mechanical engineering.....	Bausch & Lomb.....	3 92
	2227	Mechanical engineering.....	Crosby Steam Gauge Co.....	3 00
	2228	Mechanical engineering.....	Pratt & Whitney Co.....	3 37
	2229	Mechanical engineering.....	Eugene Dietzgen & Co.....	1 00
	2230	Mechanical engineering.....	F. W. Heitman & Co.....	1 83
	2231	Mechanical engineering.....	J. A. Myers.....	15 90
	2232	Campus.....	J. A. Myers.....	16 00



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Apr. 10, 1905	2233	Care of grounds.....	J. A. Myers.....	\$ 62 50
	2234	Care of grounds.....	G. H. & Webb.....	9 12
	2235	Steam plant.....	Jenkins Bros.....	23 36
	2236	Steam plant.....	Peden Iron and Steel Co.....	5 43
	2237	Steam plant.....	E. J. Fountain & Co.....	2 50
	2238	Steam plant.....	Troy Laundry Machine Co.....	5 35
	2239	Drawing.....	Bryan Eagle.....	7 00
	2240	Drawing.....	J. A. Myers.....	5 30
	2241	Horticulture.....	E. R. Emmel.....	1 50
	2242	Horticulture.....	Vaughan Seed Co.....	1 90
	2243	Horticulture.....	Austin Nursery.....	5 50
	2244	Veterinary.....	Henry Heil Chemical Co.....	8 62
	2245	Veterinary.....	C. L. & T. Bering.....	5 70
	2246	Veterinary.....	G. H. & Webb.....	8 50
	2247	Veterinary.....	G. H. & Webb.....	2 00
	2248	Veterinary.....	G. H. & Webb.....	19 18
	2249	Veterinary.....	E. J. Jenkins.....	6 15
	2250	Veterinary.....	F. W. Heitmann & Co.....	5 05
	2251	Veterinary.....	F. W. Heitmann & Co.....	3 50
	2256	Library.....	A. C. McClurg & Co.....	407 57
	2257	Civil Engineering.....	J. C. Nagle.....	13 00
	2303	Veterinary.....	G. C. Street.....	10 00
	2304	Farm husbandry.....	I. & G. N. Ry. Co.....	3 08
	2305	Farm husbandry.....	I. & G. N. Ry. Co.....	2 44
	2306	Farm husbandry.....	Wells Fargo Express Co.....	1 30
	2307	Farm husbandry.....	H. & T. C. Ry. Co.....	3 13
	2308	Farm husbandry.....	I. & G. N. Ry. Co.....	3 04
	2309	Steam plant.....	I. & G. N. Ry. Co.....	9 94
	2310	Steam plant.....	I. & G. N. Ry. Co.....	12 04
	2311	Steam plant.....	Geo. Grupe et al.....	363 25
	2312	Contingent.....	Pacific Express Co.....	35
	2313	Contingent.....	Pacific Express Co.....	35
	2314	Contingent.....	Geo. Pierce et al.....	6 00
	2315	Contingent.....	A. Stoner.....	1 00
	2316	Contingent.....	W. C. Boyett.....	1 90
	2317	Contingent.....	W. C. Boyett.....	28 21
	2318	Contingent.....	H. & T. C. Ry. Co.....	83
	2319	Botanical.....	Geo. W. Ivey.....	10 00
	2320	Care of grounds.....	Farm department.....	36 00
	2321	Care of grounds.....	Aug. Thompson.....	55 00
	2322	Farm.....	Farm department.....	42 00
	2323	Mechanical engineering.....	W. Gorzycki.....	35 00
	2324	Mechanical engineering.....	Wells Fargo Express Co.....	35
	2325	Labor.....	S. Buchanan et al.....	60 00
	2326	Phys. and elec. engr.....	I. & G. N. Railway Co.....	1 65
	2327	Phys. and elec. engr.....	I. & G. N. Railway Co.....	5 87
	2328	Drawing.....	I. & G. N. Railway Co.....	1 19
	2329	Animal husbandry.....	J. C. Burnes.....	50 00
	2330	Farm husbandry.....	I. & G. N. Railway Co.....	2 53
	2371	Wood.....	J. H. Suber.....	133 65
	2423	Steam plant.....	Ryan & Hanson.....	27 30
Apr. 20, 1905 24, 1905 30, 1905	2475	Contingent.....	S. E. Andrews.....	50 00
	2500	Salary.....	D. F. Houston.....	41 66
	2501	Salary.....	S. E. Gideon.....	155 55
	2502	Salary.....	T. C. Bittle.....	200 00
	2503	Salary.....	G. C. Embry.....	100 00
	2504	Salary.....	A. Mitchell.....	88 88
	2505	Salary.....	V. A. Foy.....	80 00
	2506	Salary.....	C. S. Potts.....	144 45
	2507	Salary.....	F. S. Johnston.....	104 16
	2508	Salary.....	J. H. Rietz.....	133 33
	2509	Salary.....	G. S. Fraps.....	43 33
	2510	Salary.....	O. D. Hargis.....	100 00
	2511	Salary.....	F. R. Marshall.....	108 33
	2512	Salary.....	E. L. Bennett.....	41 66
	2513	Salary.....	O. M. Ball.....	222 22
	2514	Salary.....	N. H. Brown.....	277 77
	2515	Salary.....	D. W. Spence.....	200 00
	2516	Salary.....	J. S. Wier.....	166 66
	2517	Salary.....	Ira Cain.....	75 00
	2518	Salary.....	A. F. Conradi.....	83 33
	2519	Salary.....	F. Foley.....	55 00
	2520	Salary.....	C. P. Fountain.....	166 66
	2521	Salary.....	J. W. Carson.....	125 00
	2522	Salary.....	M. Francis.....	111 11
	2523	Salary.....	W. G. Drummond.....	60 00
	2524	Salary.....	F. Post.....	45 00

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Apr. 30, 1905	2525	Salary.....	P. Day.....	\$ 90 00
	2526	Salary.....	D. Meers.....	75 00
	2527	Salary.....	J. D. Shaw.....	111 11
	2528	Salary.....	R. H. Whitlock.....	187 50
	2529	Salary.....	Charles Puryear.....	187 50
	2530	Salary.....	H. H. Harrington.....	125 00
	2531	Salary.....	J. C. Nagle.....	187 50
	2532	Salary.....	F. E. Giesecke.....	125 00
	2533	Salary.....	E. J. Kyle.....	48 75
	2534	Salary.....	E. C. Green.....	40 62
	2535	Salary.....	R. F. Smith.....	116 65
	2536	Salary.....	T. P. Junkin.....	116 65
	2537	Salary.....	J. A. Lomax.....	108 35
	2538	Salary.....	C. B. Campbell.....	89 20
	2539	Salary.....	Burt Spencer.....	66 66
May 1, 1905	2609	Farmers Institutes.....	W. C. Boyett.....	2 00
	2610	Farmers Institutes.....	H. H. Harrington.....	18 45
	2611	Horticulture.....	W. Lemm et al.....	90 75
	2612	Contingent.....	Western Union Telegraph Co.....	60
	2613	Contingent.....	Wells Fargo Express Co.....	1 10
	2614	Contingent.....	W. C. Boyett.....	2 99
	2615	Contingent.....	W. C. Boyett.....	1 25
	2616	Contingent.....	Wells Fargo Express Co.....	1 00
	2617	Contingent.....	H. & T. C. Railway Co.....	2 24
	2618	Contingent.....	J. A. Myers.....	15 00
	2619	Mechanical engineering.....	H. & T. C. Railway Co.....	1 24
	2620	Mechanical engineering.....	I. & G. N. Railway Co.....	1 02
	2621	Mechanical engineering.....	W. Gorzycki.....	35 00
	2622	Mechanical engineering.....	Wells Fargo Express Co.....	45
	2623	Farm husbandry.....	I. & G. N. Railway Co.....	4 95
	2624	Farm husbandry.....	Pacific Express Co.....	1 75
	2625	Farm husbandry.....	H. & T. C. Railway Co.....	16 90
	2626	Care of grounds.....	Aug. Thompson.....	55 00
	2627	Steam Plant.....	Geo. Grupe et al.....	358 60
	2628	Steam Plant.....	I. & G. N. Railway Co.....	63
	2629	Steam Plant.....	W. C. Boyett.....	10 60
	2630	Steam Plant.....	Wells Fargo Express Co.....	35
	2631	Animal husbandry.....	I. & G. N. Railway Co.....	25 27
	2632	Library.....	I. & G. N. Railway Co.....	1 57
	2633	Veterinary.....	M. Francis.....	12 05
May 11, 1905	2678	Wood.....	J. H. Suber.....	206 75
	2720	Steam plant.....	Detroit Lub. Co.....	7 50
	2721	P. & E. E.....	C. H. Beesley & Co.....	22 81
	2722	P. & E. E.....	W. Gibson Co.....	3 11
	2723	P. & E. E.....	H. Booker & Co.....	10 45
	2724	P. & E. E.....	G. H. & Webb.....	2 85
	2725	P. & E. E.....	H. & S. Co.....	6 89
	2726	Drawing.....	F. E. Giesecke.....	26 18
	2727	Mechanical engineering.....	J. A. Myers.....	34 20
	2728	Mechanical engineering.....	Crosby S. & V. Co.....	1 00
	2729	Mechanical engineering.....	F. A. Heitman & Co.....	18 68
	2730	Mechanical engineering.....	Howe Scale Co.....	2 95
	2731	Mechanical engineering.....	J. S. Robinson.....	51 75
	2732	Contingent.....	Austin Book and Stationery Co.....	26 90
	2733	Contingent.....	J. A. Myers.....	7 20
	2734	Contingent.....	J. A. Myers.....	46 45
	2735	Contingent.....	G. H. & Webb.....	1 60
	2736	Botanical.....	J. B. Frank.....	25 00
	2737	Botanical.....	O. M. Ball.....	4 05
	2738	Botanical.....	S. E. Cassino.....	2 62
	2739	Botanical.....	Longman, Green & Co.....	1 40
	2740	Veterinary.....	E. J. Jenkins.....	3 55
	2741	Veterinary.....	Bosch & Lomb.....	13 50
	2742	Veterinary.....	J. A. Myers.....	2 95
	2743	Veterinary.....	H. Waddell.....	6 48
	2744	Veterinary.....	The Pilot.....	25
	2745	Entomology.....	Spencer Lens Co.....	7 88
	2746	Entomology.....	T. Haswell.....	3 38
	2747	Entomology.....	A. F. Conradi.....	42 52
	2748	Entomology.....	American Entomology Co.....	4 53
	2749	Entomology.....	American Entomology Co.....	4 68
	2750	Entomology.....	Texas Seed and Floral Co.....	4 00
	2751	Entomology.....	G. H. & Webb.....	3 28
	2752	Care of grounds.....	J. A. Myers.....	6 50
	2753	Care of grounds.....	J. A. Myers.....	21 30
	2754	Care of grounds.....	G. H. & Webb.....	15 79
	2755	Care of grounds.....	G. H. & Webb.....	1 50

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
May 11, 1905	2756	Care of grounds.....	G. H. & Webb.....	\$ 10 55
	2757	Care of grounds.....	Farm department.....	1 86
	2758	Care of grounds.....	Subsistence department.....	1 20
	2759	Animal husbandry.....	Shoo Fly Manufacturing Co.....	1 00
	2760	Animal husbandry.....	E. J. Jenkins.....	2 60
	2761	Animal husbandry.....	National Farmer & Stock Grower...	3 00
	2762	Farm husbandry.....	G. H. & Webb.....	10 99
	2763	Farm husbandry.....	Torsen B. Co.....	1 45
	2764	Farm husbandry.....	Open Court Pub. Co.....	5 00
	2765	Farm husbandry.....	J. A. Myers.....	70
	2766	Horticulture.....	Bryan Tel. Co.....	7 00
	2767	Horticulture.....	Farm department.....	1 65
	2770	Board expenses.....	George T. Jester.....	45 65
	2811	Janitors.....	J. H. Royall et al.....	126 60
	2812	Contingent.....	W. C. Boyett.....	63 60
May 30, 1905	2813	Salary.....	D. F. Houston.....	41 66
	2814	Salary.....	S. E. Gideon.....	155 55
	2815	Salary.....	T. C. Bittle.....	200 00
	2816	Salary.....	G. C. Embry.....	100 00
	2817	Salary.....	A. Mitchell.....	88 88
	2818	Salary.....	V. H. Foy.....	80 00
	2819	Salary.....	C. S. Potts.....	144 45
	2820	Salary.....	F. S. Johnston.....	104 16
	2821	Salary.....	J. H. Rietz.....	133 33
	2822	Salary.....	G. S. Fraps.....	43 33
	2823	Salary.....	O. D. Hargis.....	100 00
	2824	Salary.....	F. R. Marshall.....	108 33
	2825	Salary.....	R. L. Bennett.....	41 66
	2826	Salary.....	O. M. Ball.....	222 22
	2827	Salary.....	N. H. Brown.....	277 77
	2828	Salary.....	D. W. Spence.....	200 00
	2829	Salary.....	J. S. Wier.....	166 66
	2830	Salary.....	Ira Cain.....	75 00
	2831	Salary.....	A. F. Conradi.....	83 33
	2832	Salary.....	F. T. Foley.....	55 00
	2833	Salary.....	C. P. Fountain.....	166 66
	2834	Salary.....	J. W. Carson.....	125 00
	2835	Salary.....	M. Francis.....	111 11
	2836	Salary.....	W. G. Drummond.....	60 00
	2837	Salary.....	F. Post.....	45 00
	2838	Salary.....	P. Day.....	90 00
	2839	Salary.....	D. Meers.....	75 00
	2840	Salary.....	J. D. Shaw.....	111 11
	2841	Salary.....	R. H. Whitlock.....	187 50
	2842	Salary.....	Charles Puryear.....	187 50
	2843	Salary.....	H. H. Harrington.....	125 00
	2844	Salary.....	J. C. Nagle.....	187 50
	2845	Salary.....	F. E. Giesecke.....	125 00
	2846	Salary.....	E. J. Kyle.....	48 75
	2847	Salary.....	E. O. Green.....	40 62
	2848	Salary.....	R. F. Smith.....	116 65
	2849	Salary.....	T. P. Junkin.....	116 65
	2850	Salary.....	J. A. Lomax.....	108 35
	2851	Salary.....	C. B. Campbell.....	89 20
	2852	Salary, April.....	L. Scholl.....	35 50
	2853	Salary, May.....	L. Scholl.....	66 66
	2893	Farm husbandry.....	Garth H. & Webb.....	25 33
	2895	Contingent.....	S. E. Andrews.....	100 00
June 1, 1905	2916	Mechanical Engineering.....	Wells Fargo Express Co.....	3 10
	2917	Mechanical Engineering.....	W. C. Boyett.....	10 60
	2918	Mechanical Engineering.....	T. E. Taylor.....	19 15
	2919	Mechanical engineering.....	H. & T. C. Ry. Co.....	3 28
	2920	Mechanical engineering.....	Wells Fargo Express Co.....	1 25
	2921	Steam plant.....	I. & G. N. Ry. Co.....	42
	2922	Steam plant.....	I. & G. N. Ry. Co.....	11 30
	2923	Farm husbandry.....	I. & G. N. Ry. Co.....	26 33
	2924	Farm husbandry.....	H. & T. C. Ry. Co.....	9 07
	2925	Farm husbandry.....	H. & T. C. Ry. Co.....	98
	2926	Farm husbandry.....	Wells Fargo Express Co.....	30
	2927	Animal husbandry.....	J. A. Lee.....	10 00
	2928	Contingent.....	Wells Fargo Express Co.....	90
	2929	Contingent.....	Wells Fargo Express Co.....	1 25
	2930	Contingent.....	Wells Fargo Express Co.....	25
	2931	Contingent.....	Pacific Express Co.....	35
	2932	Contingent.....	H. & T. C. Ry. Co.....	35
	2933	Contingent.....	Geo. Easter.....	2 00
	2934	Contingent.....	W. C. Boyett.....	2 00



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
June 1, 1905	2935	Botanical.....	W. C. Boyett.....	\$ 3 00
	2936	Farmers' institutes.....	J. W. Carson.....	37 50
	2937	Entomology.....	Pacific Express Co.....	40
	2938	Janitors.....	J. Royall.....	13 00
	2953	Steam plant.....	Geo. Grupe et al.....	360 00
June 3, 1905	2971	Phys. and elec. engr.....	Wesco Supply Co.....	142 11
	2974	Laborers.....	S. G. Buchanan et al.....	60 00
	2975	Janitors.....	G. W. Buchanan et al.....	83 00
	2976	Care of grounds.....	Aug. Thompson.....	55 00
June 19, 1905	3066	Janitors.....	G. W. Buchanan et al.....	96 00
	3067	Phys. and elec. engr.....	J. E. Hill.....	132 00
	3068	Phys. and elec. engr.....	N. H. Brown.....	2 91
	3069	Phys. and elec. engr.....	N. H. Brown.....	8 27
	3070	Military.....	Wells Fargo Express Co.....	2 10
	3 71	Military.....	W. C. Boyett.....	3 36
	3072	Botanical.....	O. M. Ball.....	8 00
	3073	Steam plant.....	T. L. Cross & Co.....	46 34
	3074	Steam plant.....	W. Andrews et al.....	7 90
	3075	Steam plant.....	Ivey Foster et al.....	47 30
	3076	Contingent.....	I. & G. N. Ry. Co.....	15 84
	3077	Contingent.....	H. M. Dickman et al.....	15 00
	3078	Contingent.....	Pacific Express Co.....	35
	3079	Contingent.....	Western Union Telegraph Co.....	35
	3080	Contingent.....	Wells Fargo Express Co.....	25
	3081	Contingent.....	Wells Fargo Express Co.....	65
	3082	Contingent.....	Wells Fargo Express Co.....	30
	3083	Mechanical engineering.....	W. Goryzcki.....	35 00
	3084	Mechanical engineering.....	R. H. Whitlock.....	25
	3085	Mechanical engineering.....	H. & T. C. Ry. Co.....	1 39
	3086	Mechanical engineering.....	Pacific Express Co.....	30
	3087	Mechanical Engineering.....	I. & G. N. Ry. Co.....	1 35
	3088	Mechanical Engineering.....	E. J. Jenkins.....	60
	3089	Mechanical Engineering.....	W. Goryzcki.....	19 50
	3090	Veterinary.....	T. R. Carson.....	16 10
	3091	Veterinary.....	Wells Fargo Express Co.....	1 15
	3092	Care of roads.....	Wells Fargo Express Co.....	1 65
	3093	Care of roads.....	Pacific Express Co.....	25
	3094	Library.....	Ira Cain.....	26 63
	3104	Board expenses.....	W. J. Clay.....	10 80
June 26, 1905	3105	Board expenses.....	K. K. Legett.....	54 85
	3167	Farmers Institutes.....	S. W. Tel. and Tel. Co.....	3 10
	3168	Entomology.....	Ohio Naturalist.....	1 00
	3169	Entomology.....	H. H. Newcomb.....	1 00
	3170	Entomology.....	G. H. & Webb.....	15
	3171	Entomology.....	American Entomological Co.....	4 70
	3172	Entomology.....	M. H. James.....	85
	3173	Entomology.....	Remington Typewriter Co.....	2 00
	3174	Entomology.....	A. F. Conradi.....	36 17
	3175	Entomology.....	W. J. Coulter.....	2 20
	3176	Veterinary.....	Houston Show Case Co.....	32 00
	3177	Veterinary.....	E. J. Jenkins.....	4 45
	3178	Veterinary.....	Pasteur Vaccine Co.....	2 40
	3179	Veterinary.....	Howell Bros.....	6 95
	3180	Veterinary.....	Hausmann & Dunn.....	14 67
	3181	Horticultural.....	Whitall, Tatum & Co.....	99 91
	3182	P. and E. E.....	D. Van Nostrand & Co.....	3 09
	3183	P. and E. E.....	Central Scientific Co.....	1 47
	3184	Military.....	M. C. Lilly & Co.....	37 15
	3185	Military.....	Morgan Printing Co.....	16 77
	3186	Botanical.....	Spencer Lens Co.....	3 85
	3187	Botanical.....	M. H. James.....	4 75
	3188	Botanical.....	University of Chicago Press.....	5 00
	3189	Care of grounds.....	J. A. Myers.....	8 20
	3190	Care of grounds.....	G. H. & Webb.....	10 19
	3191	Care of grounds.....	G. H. & Webb.....	5 60
	3192	Care of grounds.....	G. H. & Webb.....	10 56
	3193	Mechanical engineering.....	F. W. Heitman & Co.....	27 25
	3194	Mechanical engineering.....	F. W. Heitman & Co.....	5 85
	3195	Mechanical engineering.....	G. H. & Webb.....	6 60
	3196	Mechanical engineering.....	J. A. Myers.....	47 10
	3197	Mechanical engineering.....	A. L. Tude & Sons.....	16 75
	3198	Mechanical engineering.....	Fairbanks & Co.....	26 72
	3199	Mechanical engineering.....	Tremont Manufacturing Co.....	1 10
	3200	Mechanical engineering.....	J. C. McCarty & Co.....	1 00
	3201	Mechanical engineering.....	Brown & Sharp Manufacturing Co.....	7 20
	3202	Mechanical engineering.....	Brown & Sharp Manufacturing Co.....	13
	3203	Mechanical engineering.....	Mess Hall.....	25

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
June 30, 1905	3206	Janitors .....	L. Sessums et al. ....	\$ 58 00
	3207	Laborers .....	S. Buchanan et al. ....	60 00
	3208	Continent .....	W. C. Boyett .....	2 50
	3209	Contingent .....	Pacific Express Co. ....	35
	3210	Salary .....	F. S. Johnston .....	104 16
	3211	Salary .....	F. R. Marshall .....	108 33
	3212	Salary .....	R. L. Bennett .....	41 66
	3213	Salary .....	A. F. Conradi .....	83 33
	3214	Salary .....	F. T. Foley .....	55 00
	3215	Salary .....	P. Day .....	90 00
	3216	Salary .....	D. Meers .....	75 00
	3217	Salary .....	L. Scholl .....	66 66
	3253	Board expenses .....	F. A. Reichardt .....	5 60
	3270	Horticultural .....	Kappie Ward .....	7 50
	3271	Farmers Institutes .....	E. C. Green .....	6 15
	3272	Farm husbandry .....	W. C. Boyett .....	2 00
	3273	Library .....	H. & T. C. Ry. Co. ....	1 24
	3274	Library .....	Ira Cain .....	5 10
	3275	Contingent .....	S. E. Andrews .....	100 00
	3276	Salary .....	Ira Cain .....	75 00
July 10, 1905	3359	Contingent .....	Southwestern Tel. and Tel. Co. ....	6 25
	3360	Contingent .....	W. U. Tel. Co. ....	35
	3361	Contingent .....	M. H. James .....	85
	3362	Contingent .....	G. H. & Webb .....	1 60
	3363	Contingent .....	G. H. & Webb .....	5 00
	3364	Contingent .....	J. A. Myers .....	9 50
	3365	Contingent .....	J. A. Myers .....	12 55
	3366	Contingent .....	Austin Book and Stationery Co. ....	2 56
	3367	Contingent .....	Remington Typewriter Co. ....	7 15
	3368	Contingent .....	Carson, Sewall & Co. ....	6 21
	3369	Entomology .....	N. H. Brown .....	4 00
	3370	Entomology .....	T. Haswell .....	1 90
	3371	Entomology .....	Webb Bros. ....	2 93
	3372	Entomology .....	A. F. Conradi .....	2 00
	3373	Entomology .....	Duncan Hobson Electric Co. ....	18 24
	3374	Entomology .....	Nernst Lamp Co. ....	15 12
	3375	P. and E. E. ....	Ben S. Read .....	2 10
	3376	P. and E. E. ....	W. C. Boyett .....	45
	3377	P. and E. E. ....	Keuffel & Esser Co. ....	6 75
	3378	P. and E. E. ....	D. H. Electric Co. ....	7 37
	3379	Veterinary .....	G. H. & Webb .....	3 15
	3380	Steam plant .....	Cole Hardware Co. ....	25
	3381	Steam plant .....	W. J. Coulter .....	80
	3382	Steam plant .....	E. J. Fountain & Co. ....	2 50
	3383	Steam plant .....	T. Haswell .....	4 65
	3384	Steam plant .....	Woodward Weight & Co. ....	34 75
	3385	Steam plant .....	Tyan & Hanson .....	37 89
	3386	Steam plant .....	Austin Book and Stationery Co. ....	2 41
	3387	Steam plant .....	A. J. Buchanan .....	2 30
	3388	Steam plant .....	Northern Electric Mfg. Co. ....	3 50
	3389	Steam plant .....	Cole Hardware Co. ....	75
	3390	Steam plant .....	Howell Bros. ....	1 00
	3391	Steam plant .....	Jenkins Bros. ....	3 34
	3392	Steam plant .....	American Engine Co. ....	8 50
	3393	Steam plant .....	National Ammonia Co. ....	45 90
	3394	Steam plant .....	Bryan Marsh Co. ....	38 06
	3395	Steam plant .....	W. P. Oil Co. ....	56 61
	3396	Steam plant .....	F. W. Heitmann Co. ....	21 03
	3397	Steam plant .....	F. W. Heitmann & Co. ....	16 23
	3398	Steam plant .....	M. H. James .....	20
	3399	Steam plant .....	M. H. James .....	1 60
	3400	Civil engineering .....	G. H. & Webb .....	42 00
	3442	Board expenses .....	M. Sansom .....	84 20
	3500	Library .....	T. Haswell .....	1 25
	3501	Library .....	A. C. McClurg & Co. ....	58 60
	3502	Library .....	Benj. Wyche .....	4 45
	3503	Library .....	Baker & Taylor Co. ....	88 32
	3511	Contingent .....	D. F. Houston .....	139 50
	3525	Laborers .....	Sam Buchanan et al. ....	60 00
July 14, 1905	3544	Horticultural .....	W. Lehm et al. ....	35 00
	3545	Care of grounds .....	Farm department .....	30 00
	3546	Farmers' Institutes .....	W. C. Boyett .....	2 00
	3547	Farmers' Institutes .....	J. W. Carson .....	60 80
	3548	Roads and grounds .....	Aug. Thompson .....	55 00
	3549	Farm husbandry .....	I. & G. N. Ry. Co. ....	3 96
	3550	Farm husbandry .....	H. & T. C. Ry. Co. ....	1 57
	3551	Contingent .....	Rev. B. H. Dement .....	25 00

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
July 14, 1905	3552	Contingent.....	Western Union Telegraph Co.....	\$ 75
	3553	Contingent.....	W. C. Boyett.....	4 48
	3554	Contingent.....	W. C. Boyett.....	2 25
	3555	Veterinary.....	L. L. Ballard.....	10 00
Aug. 15, 1905	3644	Salary.....	F. S. Johnston.....	104 16
	3645	Salary.....	F. R. Marshall.....	108 33
	3646	Salary.....	R. L. Bennett.....	41 66
	3647	Salary.....	A. F. Conradi.....	83 33
	3648	Salary.....	F. T. Foley.....	55 00
	3649	Salary.....	D. Meers.....	75 00
	3610	Salary.....	L. Scholl.....	66 66
	3611	Salary.....	G. S. Fraps.....	43 33
	3612	Salary.....	J. W. Carson.....	125 00
	3613	Contingent.....	S. E. Andrews.....	100 00
	3614	Laborers.....	Sam Buchanan et al.....	60 00
	3615	Care of roads and grounds.....	Aug. Thompson.....	55 00
	3616	Civil engineering.....	G. H. & Webb.....	5 00
	3617	Civil engineering.....	Clarke & Courts.....	28 10
	3618	Civil engineering.....	T. C. Bittle.....	10 00
	3617	Steam plant.....	Geo. Grupe et al.....	161 65
Aug. 23, 1905	3717	Farm husbandry.....	Wells Fargo Express Co.....	1 20
	3718	Farm husbandry.....	I. & G. N. Ry. Co.....	73
	3719	Entomology.....	J. Easton.....	5 50
	3720	Farmers' institutes.....	J. W. Carson.....	44 00
	3721	Farmers' institutes.....	R. L. Bennett.....	6 09
	3722	Civil engineering.....	W. J. Andrews.....	7 50
	3723	Veterinary.....	M. Francis.....	5 63
	3724	Contingent.....	Western Union Telegraph Co.....	55
	3725	Contingent.....	Western Union Telegraph Co.....	4 05
	3726	Contingent.....	W. C. Boyett.....	1 00
	3727	Contingent.....	W. C. Boyett.....	3 75
	3728	Contingent.....	W. U. Tel. Co.....	75
	3729	Contingent.....	W. F. Express Co.....	25
	3730	Contingent.....	W. F. Express Co.....	25
	3731	Contingent.....	C. P. Fountain.....	8 25
Aug. 31, 1905	3766	Salary.....	F. S. Johnston.....	104 16
	3767	Salary.....	F. R. Marshall.....	108 33
	3768	Salary.....	R. L. Bennett.....	41 66
	3769	Salary.....	A. F. Conradi.....	48 84
	3770	Salary.....	F. T. Foley.....	55 00
	3771	Salary.....	D. Meers.....	75 00
	3772	Salary.....	L. Scholl.....	66 66
	3773	Salary.....	G. S. Fraps.....	43 33
	3774	Salary.....	J. W. Carson.....	125 00
	3801	Care of grounds.....	August Thompson.....	55 00
	3802	Laborers.....	S. Buchanan et al.....	60 00
	3806	Care of grounds.....	J. T. Hanway.....	8 65
	3807	Care of grounds.....	J. A. Myers.....	17 50
	3808	Farmers' institutes.....	W. S. Hotchkiss.....	8 15
	3809	Veterinary.....	J. A. Myers.....	6 75
	3810	Entomology.....	Austin Book and Stationery Co.....	9 28
	3811	Entomology.....	A. F. Conradi.....	12 15
	3812	Entomology.....	A. F. Conradi.....	8 18
	3813	Entomology.....	A. F. Conradi.....	4 75
	3814	Entomology.....	A. F. Conradi.....	27 56
	3815	Entomology.....	A. F. Conradi.....	10 00
	3816	Entomology.....	G. W. Heyer.....	2 55
	3817	Entomology.....	Howell Bros.....	18 07
	3818	Entomology.....	Houston Drug Co.....	5 20
	3819	Entomology.....	J. Manz Engraving Co.....	113 65
	3820	Entomology.....	.....	void
	3821	Entomology.....	M. M. McDougald.....	4 55
	3822	Entomology.....	The Macmillan Co.....	8 64
	3823	Entomology.....	Remington Typewriter Co.....	1 70
	3824	Entomology.....	Subsistence department.....	1 00
	3825	Civil engineering.....	J. A. Myers.....	34 37
	3826	Civil engineering.....	J. C. Nagle.....	11 18
	3827	Civil engineering.....	E. Dietzgen & Co.....	86 38
	3828	Contingent.....	J. A. Myers.....	2 25
	3829	Contingent.....	J. A. Myers.....	8 88
	3830	Contingent.....	State Printing Co.....	173 74
	3831	Mechanical engineering.....	W. F. Heitman Co.....	20 86
	3832	Botanical.....	Lemcke & Buchner.....	3 25
	3840	Drawing.....	G. E. Giesecke.....	3 20
	3841	Board expenses.....	S. E. Andrews.....	15 45
	3842	Entomology.....	Ed Chew.....	95
	3843	Contingent.....	H. H. Harrington.....	18 09



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Aug. 31, 1905	3844	Board expenses .....	D. F. Houston .....	\$ 5 00
	3845	Entomology .....	Joe Williams .....	65
	3874	P. & E. E. ....	Montgomery, Ward & Co. ....	30 24
	3875	P. & E. E. ....	Howell Bros. ....	2 65
	3876	P. & E. E. ....	J. A. Myers .....	21 69
	3877	P. & E. E. ....	N. H. Brown .....	7 69
	3878	P. & E. E. ....	C. L. & T. Bering .....	13 00
	3879	P. & E. E. ....	W. D. Weaver, treasurer .....	10 00
	3880	P. & E. E. ....	Bryan Tel. Co. ....	14 75
	3906	Horticulture .....	J. A. Myers .....	24 00
	3919	Steam plant .....	George Grupe .....	90 00
	3920	Steam plant .....	George Grupe .....	90 00
	3921	Farm husbandry .....	C. W. Boyce .....	10 00
	3923	Board expenses .....	W. J. Clay .....	20 25
	3926	Entomology .....	Macey-Wernicke Co. ....	9 27
	3930	Contingent .....	I. & G. N. Ry Co. ....	08
	3931	Veterinary .....	Cole Hardware Co. ....	Void
	3932	Military .....	R. Wuriltzer Co (2225) .....	06
Sept. 4, 1905	3933	Treas. Trav. Exp .....	J. G. Harrison .....	30 90
Oct. 4, 1905	3950	Salary .....	H. H. Harrington .....	175 00
	3951	Salary .....	R. H. Whitlock .....	125 00
	3952	Salary .....	Charles Puryear .....	125 00
	3953	Salary .....	M. Francis .....	90 00
	3954	Salary .....	F. E. Giesecke .....	120 00
	3955	Salary .....	J. C. Nagle .....	125 00
	3956	Salary .....	T. G. Bittle .....	100 00
	3957	Salary .....	C. W. Hutson .....	100 00
	3958	Salary .....	D. W. Spence .....	100 00
	3959	Salary .....	F. S. Johnston .....	100 00
	3960	Salary .....	E. J. Kyle .....	65 00
	3961	Salary .....	O. M. Ball .....	120 00
	3962	Salary .....	N. H. Brown .....	190 00
	3963	Salary .....	J. A. Craig .....	125 00
	3964	Salary .....	R. F. Smith .....	80 00
	3965	Salary .....	T. P. Junkin .....	80 00
	3966	Salary .....	F. R. Marshall .....	75 00
	3967	Salary .....	C. P. Fountain .....	80 00
	3968	Salary .....	W. G. Drummond .....	80 00
	3969	Salary .....	E. C. Green .....	60 00
	3970	Salary .....	C. S. Potts .....	58 33
	3971	Salary .....	G. S. Fraps .....	50 00
	3972	Salary .....	A. A. Haskell .....	70 00
	3973	Salary .....	W. C. Nelson .....	55 55
	3974	Salary .....	J. A. Lomax .....	70 00
	3975	Salary .....	A. F. Conradi .....	45 00
	3976	Salary .....	C. B. Campbell .....	70 00
	3977	Salary .....	J. G. Harrison .....	57 50
	3978	Salary .....	S. E. Andrews .....	50 00
	3979	Salary .....	J. B. Bagley .....	50 00
	3980	Salary .....	O. D. Hargis .....	60 00
	3981	Salary .....	A. Mitchell .....	60 00
	3982	Salary .....	A. C. Snyder .....	37 50
	3983	Salary .....	W. E. Bachman .....	50 00
	3984	Salary .....	I. Cain .....	40 00
	3985	Salary .....	J. S. Wier .....	120 00
	3986	Salary .....	G. C. Embry .....	60 00
	3987	Salary .....	F. Foley .....	30 00
	3988	Salary .....	R. L. Bennett .....	41 66
	3989	Salary .....	D. Meers .....	75 00
	3990	Salary .....	D. E. Earle .....	60 00
	3991	Salary .....	L. Scholl .....	40 00
	3992	Salary .....	Geo. Grupe .....	100 00
	3993	Salary .....	J. W. Carson .....	45 00
Oct. 10, 1905	182	Steam Plant .....	J. H. Suber .....	398 00
	196	Board expenses .....	A. J. Brown .....	63 10
	257	Board expenses .....	F. A. Reichardt .....	45 15
Oct. 17, 1905	382	Civil engineering .....	Leavy Bros. ....	37 25
	383	Horticulture .....	Electric Light and Ice .....	31
	3-4	Horticulture .....	Nut Growers .....	1 85
	385	Horticulture .....	C. O. Shelbome .....	8 00
	386	Horticulture .....	Munday & Mochlin .....	7 15
	387	Horticulture .....	Southwestern Tel. & Tel. Co. ....	2 40
	388	Veterinary .....	G. H. & Webb .....	18 35
	389	Veterinary .....	G. S. Parmer .....	18 72
	390	Veterinary .....	M. Parker .....	10 00
	391	Veterinary .....	H. Waddell .....	5 50
	392	Veterinary .....	Brindley Bros. ....	1 50

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Oct. 17, 1905	393	Veterinary.....	M. Francis.....	\$ 8 85
	394	Drawing.....	Levy Bros.....	9 50
	395	Drawing.....	Lemcke & Buchner.....	42 52
	396	Drawing.....	McGraw Publishing Co.....	3 00
	397	Drawing.....	W. T. Comstock.....	3 40
	398	Drawing.....	J. A. Myers.....	1 75
	399	Drawing.....	Levy Bros.....	14 00
	400	Animal husbandry.....	G. H. & Webb.....	5 90
	401	Botanical.....	E. W. D. Caldwell.....	2 00
	402	Botanical.....	Spencer Lens Co.....	36 01
	403	Botanical.....	Lempke & Buchner.....	2 51
	404	Botanical.....	John Wiley & Sons.....	1 25
	405	Botanical.....	Lemcke & Buchner.....	2 20
	406	Botanical.....	Lemcke & Buchner.....	19 92
	407	Entomology.....	A. F. Conradi.....	5 87
	408	Entomology.....	A. F. Conradi.....	26 86
	409	Entomology.....	Houston Drug Co.....	2 59
	410	Entomology.....	Garth H. & Webb.....	10 57
	411	Entomology.....	L. H. Scholl.....	4 05
	412	Entomology.....	D. C. Milam.....	7 00
	413	Entomology.....	T. Haswell.....	4 56
	414	Foul brood.....	D. C. Milam.....	36 00
	416	P. & E. E.....	J. A. Myers.....	11 90
	417	P. & E. E.....	Acetyline Journal.....	50
	418	P. & E. E.....	Hill Bros. & Co.....	40 35
	419	P. & E. E.....	P. Martin & Co.....	80 23
	420	Steam plant.....	Waters-Pierce Oil Co.....	14 70
	421	Steam plant.....	Alden Spears Sons & Co.....	106 68
	422	Steam plant.....	F. W. Heitmann.....	54 82
	423	Steam plant.....	I. & G. N. Ry. Co.....	28 62
	424	Steam plant.....	I. & G. N. Ry. Co.....	11 60
	447	Contingent.....	W. C. Boyett.....	212 50
	448	Contingent.....	Western Union Telegraph Co.....	50
	449	Contingent.....	I. & G. N. Ry. Co.....	17 13
	450	Contingent.....	Pacific Express Co.....	40
	451	Contingent.....	Wells Fargo Express Co.....	70
	452	Contingent.....	I. & G. N. Ry. Co.....	35 10
	453	Contingent.....	J. A. Myers.....	10 60
	454	Contingent.....	W. C. Boyett.....	2 00
	455	Farm husbandry.....	I. & G. N. Ry. Co.....	1 06
	456	Farm husbandry.....	Pacific Express Co.....	45
	457	Farm husbandry.....	I. & G. N. Ry. Co.....	6 00
	458	Farm husbandry.....	John Wilson.....	15 50
	459	Mechanical engineering.....	W. Goryzcki.....	7 00
	460	Steam plant.....	Southwestern Tel. & Tel. Co.....	65
	461	Animal husbandry.....	I. & G. N. Ry. Co.....	16 00
	462	Animal husbandry.....	Western Union Telegraph Co.....	1 55
	463	Animal husbandry.....	J. O. Burns.....	20 00
	464	Board expenses.....	S. E. Andrews.....	17 00
	465	Steam plant.....	H. & T. C. Ry. Co.....	63
	466	Steam plant.....	Wells Fargo Express Co.....	45
	467	Animal husbandry.....	I. & G. N. Ry. Co.....	6 25
	468	Animal husbandry.....	H. & T. C. Ry. Co.....	1 08
	469	Horticulture.....	H. Nixon et al.....	6 00
	470	Horticulture.....	S. A. Minear et al.....	70 00
	471	Horticulture.....	P. Vytöpel.....	8 50
	472	Veterinary.....	J. J. Jones.....	7 50
	473	Veterinary.....	N. F. Carson.....	5 00
	474	Veterinary.....	H. Nicholson.....	5 00
	475	Veterinary.....	H. & T. C. Ry. Co.....	3 00
	476	Phys. and elec. engr.....	E. L. Beard.....	7 00
	477	Phys. and elec. engr.....	H. & T. C. Ry. Co.....	4 06
	478	Phys. and elec. engr.....	H. & T. C. Ry. Co.....	1 27
	479	Drawing.....	I. H. Newton.....	15 75
Oct. 23, 1905	480	Contingent.....	Hill Bros.....	17 25
	481	Contingent.....	G. H. & Webb.....	4 10
	482	Contingent.....	G. H. & Webb.....	12 00
	483	Contingent.....	Remington Typewriter Co.....	1 70
	484	Contingent.....	J. A. Myers.....	19 20
	485	Contingent.....	Duncan Hobson Co.....	21 14
	486	Contingent.....	J. A. Myers.....	5 30
	487	Contingent.....	T. Haswell.....	8 25
	488	Contingent.....	J. L. Wortham.....	112 00
	489	Contingent.....	Levy Bros.....	466 45
Oct. 31, 1905	490	Mechanical engineering.....	McMillan & Co.....	2 48
	539	Salary.....	H. H. Harrinton.....	175 00
	540	Salary.....	R. H. Whitlock.....	125 00

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Oct. 31, 1905	541	Salary.....	Chas. Puryear.....	\$ 125 00
	542	Salary.....	M. Francis.....	90 00
	543	Salary.....	F. E. Giesecke.....	120 00
	544	Salary.....	J. C. Nagle.....	125 00
	545	Salary.....	T. O. Bittle.....	100 00
	546	Salary.....	C. W. Hutson.....	100 00
	547	Salary.....	D. W. Spence.....	100 00
	548	Salary.....	F. S. Johnston.....	100 00
	549	Salary.....	E. J. Kyle.....	65 00
	550	Salary.....	O. M. Ball.....	120 00
	551	Salary.....	N. H. Brown.....	110 00
	552	Salary.....	J. A. Craig.....	125 00
	553	Salary.....	R. F. Smith.....	80 00
	554	Salary.....	T. P. Junkin.....	80 00
	555	Salary.....	F. R. Marshall.....	75 00
	556	Salary.....	C. P. Fountain.....	80 00
	557	Salary.....	W. G. Drummond.....	80 00
	558	Salary.....	E. C. Green.....	60 00
	559	Salary.....	C. S. Potts.....	58 33
	560	Salary.....	G. S. Fraps.....	50 00
	561	Salary.....	A. A. Haskell.....	70 00
	562	Salary.....	W. C. Nelson.....	55 55
	563	Salary.....	J. A. Lomax.....	70 00
	564	Salary.....	A. F. Conradi.....	45 00
	565	Salary.....	C. B. Campbell.....	70 00
	566	Salary.....	J. G. Harrison.....	57 50
	567	Salary.....	S. E. Andrews.....	50 00
	568	Salary.....	J. B. Bagley.....	50 00
	569	Salary.....	O. D. Hargis.....	60 00
	570	Salary.....	A. Mitchell.....	60 00
	571	Salary.....	A. Snyder.....	37 50
	572	Salary.....	W. E. Bachman.....	77 77
	573	Salary.....	W. E. Bachman (to correct Sept.).....	27 77
	574	Salary.....	Ira Cain.....	40 00
	575	Salary.....	J. S. Wier.....	120 00
	576	Salary.....	G. C. Embry.....	60 00
	577	Salary.....	F. Foley.....	30 00
	578	Salary.....	R. L. Bennett.....	41 66
	579	Salary.....	D. Meers.....	75 00
	580	Salary.....	D. E. Earle.....	60 00
	581	Salary.....	L. Scholl.....	40 00
	582	Salary.....	Geo. Grupe.....	100 00
	583	Salary.....	J. W. Carson.....	45 00
	584	Salary.....	P. Day.....	90 00
	585	Salary.....	B. Sbisaa.....	150 00
Nov. 1, 1905	736	Janitors.....	W. Walthal et al.....	91 20
	737	Laborers.....	S. Buchanan et al.....	60 00
	738	Care of grounds.....	A. Thompson.....	60 00
	739	Mechanical engineering.....	Western Union Telegraph Co.....	40
	740	Mechanical engineering.....	Pacific Express Co.....	30
	741	Contingent.....	W. C. Hoyett.....	22 00
	742	Contingent.....	Kappe Ward.....	1 25
	743	Steam plant.....	I. & G. N. Ry. Co.....	12 20
	744	Steam plant.....	Ryan & Hanson.....	18 85
	745	Steam plant.....	I. & G. N. Ry. Co.....	42
	746	Steam plant.....	I. & G. N. Ry. Co.....	42
	747	Steam plant.....	Pacific Express Co.....	1 15
	748	Steam plant.....	Wells Fargo Express Co.....	45
	749	Contingent.....	H. & T. C. Ry. Co.....	4 00
	750	Veterinary.....	Sam Parker.....	5 00
	751	Contingent.....	Wells Fargo Express Co.....	55
	754	Steam plant.....	A. G. Harrall et al.....	77 30
	764	Veterinary.....	J. H. Suber.....	12 50
	765	Veterinary.....	T. R. Carson.....	35 00
	766	Veterinary.....	D. G. Jolly.....	5 00
	767	Contingent.....	W. F. Meers.....	125 00
	768	Contingent.....	W. F. Meers.....	void
	769	Contingent.....	I. & G. N. Ry. Co.....	41
	770	Contingent.....	I. & G. N. Ry. Co.....	1 24
	771	Mechanical engineering.....	W. Goryzcki et al.....	37 50
	772	Horticulture.....	E. J. Kyle.....	1 91
	773	Animal husbandry.....	H. & T. C. Ry. Co.....	21 42
	774	Animal husbandry.....	J. C. Burns.....	20 00
	775	Labor.....	H. & T. C. Ry. Co.....	67
	776	Botanical.....	Pacific Express Co.....	40
	777	Steam plant.....	I. & G. N. Ry. Co.....	12 08
	778	Steam plant.....	I. & G. N. Ry. Co.....	46



Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 1, 1905	779	Drawing.....	Pacific Express Co.....	\$ 1 40
	780	Care of grounds.....	August Thompson.....	60 00
	781	Janitors.....	D. Ward et al.....	176 50
	782	Laborers.....	S. Buchanan et al.....	60 00
	810	Salary.....	Mrs. Ira Cain.....	57 00
	815	Board expenses.....	K. K. Legett.....	35 15
	816	Farm husbandry.....	Kelselman Bros.....	2 02
	817	Farm husbandry.....	Library bureau.....	41 45
	818	Farm husbandry.....	J. A. Myers.....	22 70
	819	Farm husbandry.....	G. H. & Webb.....	51 08
	820	Farm husbandry.....	Fred L. Lake & Co.....	1 40
	821	Drawing.....	John Wiley & Sons.....	1 34
	822	Drawing.....	J. A. Myers.....	43 55
	823	Drawing.....	J. H. Hatfield.....	5 82
	824	Drawing.....	E. Dietzgen Co.....	2 28
	825	Drawing.....	Huffel & Esser.....	3 45
	826	Botanical.....	Lemcke & Buchner.....	1 85
	827	Care of grounds.....	The Library of Congress.....	6 04
	828	Care of grounds.....	G. H. & Webb.....	24 75
	829	Contingent.....	G. S. Parker.....	8 00
	830	Contingent.....	Bryan Eagle.....	12 00
	831	Contingent.....	James Bute.....	66 94
	832	Contingent.....	J. A. Myers.....	9 05
	833	Entomology.....	Spencer Lens Co.....	11 37
	834	Entomology.....	J. Manz Engraving Co.....	3 30
	845	Mechanical engineering.....	E. Dietzgen & Co.....	1 00
	846	Mechanical engineering.....	F. W. Heitmann.....	43 99
	847	Mechanical engineering.....	Straight Line Engraving Co.....	5 25
	848	Steam Plant.....	E. J. Fountain & Co.....	5 50
	849	Steam Plant.....	Troy Laundry Machine Co.....	1 66
	850	Steam Plant.....	Ryan & Hanson.....	61 72
	851	Steam Plant.....	Ryan & Hanson.....	19 82
	852	Steam Plant.....	Ryan & Hanson.....	19 63
	853	Steam Plant.....	De La Vergne Machine Co.....	43 98
	854	Steam Plant.....	F. W. Heitmann.....	38 74
	855	Veterinary.....	E. C. Harder & Co.....	9 00
	856	Veterinary.....	J. L. Hearne.....	4 00
	857	Veterinary.....	W. R. Jenkins.....	38 75
	858	Horticulture.....	O. Weichsel & Co.....	6 45
Nov. 14, 1905	884	Veterinary.....	W. R. Jenkins.....	3 00
	885	P. & E. E.....	W. C. Hixon & Co.....	2 50
	886	P. & E. E.....	Ben S. Reed.....	25
	887	P. & E. E.....	Yale & Towne Manufacturing Co.....	22 75
	888	P. & E. E.....	Tyler Haswell.....	50
	896	Entomology.....	Austin Book and Stationery Co.....	7 17
	897	Entomology.....	T. Haswell.....	1 90
	898	Entomology.....	Entomological Society of Ont.....	1 00
	899	Foul brood.....	D. C. Milam.....	24 50
	900	Foul brood.....	Houston Drug Co.....	1 25
Nov. 22, 1905	901	Wood.....	J. H. Suber.....	157 70
	960	Foul brood.....	D. C. Milam.....	28 00
	961	Foul brood.....	E. Scholl.....	49 85
	962	Horticulture.....	Austin Nursery.....	7 50
	963	Entomology.....	S. P. Supply Co.....	1 50
	964	Entomology.....	Am. Bee Keeper.....	60
	965	Entomology.....	L. H. Scholl.....	2 25
	966	Entomology.....	Greenville P. Manufacturing Co.....	15 00
	967	Drawing.....	J. Wiley & Sons.....	6 82
	968	Contingent.....	G. S. Parker.....	49 61
	969	Contingent.....	Western Union Telegraph Co.....	5 90
	970	Contingent.....	J. A. Myers.....	105 01
	971	Care of grounds.....	J. M. Thornburn & Co.....	10 17
	972	Care of grounds.....	J. A. Myers.....	3 30
	973	Veterinary.....	G. H. & Webb.....	1 05
	974	Veterinary.....	Tyler Haswell.....	2 45
	975	Veterinary.....	J. A. Myers.....	11 00
Nov. 30, 1905	976	Veterinary.....	E. J. Jenkins.....	13 35
	977	Veterinary.....	R. M. Nall.....	5 00
	981	Steam Plant.....	S. F. Farley et al.....	237 80
	1023	Salary.....	H. H. Harrington.....	175 00
	1024	Salary.....	R. H. Whitlock.....	125 00
	1025	Salary.....	Charles Puryear.....	125 00
	1026	Salary.....	M. Francis.....	90 00
	1027	Salary.....	F. E. Giesecke.....	120 00
	1028	Salary.....	J. C. Nagle.....	125 00
	1029	Salary.....	O. W. Hutson.....	100 00
	1030	Salary.....	D. W. Spence.....	100 00

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 30, 1905	1031	Salary .....	F. S. Johnston.....	\$ 120 84
	1032	Salary .....	E. J. Kyle.....	65 00
	1033	Salary .....	O. M. Ball.....	120 00
	1034	Salary .....	N. H. Brown .....	150 00
	1035	Salary .....	J. A. Craig.....	125 00
	1036	Salary .....	R. F. Smith.....	80 00
	1037	Salary .....	T. P. Junkin.....	80 00
	1038	Salary .....	F. R. Marshall.....	75 00
	1039	Salary .....	C. P. Fountain.....	80 00
	1040	Salary .....	W. G. Drummond .....	80 00
	1041	Salary .....	E. C. Green.....	60 00
	1042	Salary .....	C. S. Potts.....	58 33
	1043	Salary .....	G. S. Fraps.....	50 00
	1044	Salary .....	A. A. Haskell.....	70 00
	1045	Salary .....	W. C. Nelson.....	55 55
	1046	Salary .....	J. A. Lomax.....	70 00
	1047	Salary .....	A. F. Conradi.....	45 00
	1048	Salary .....	C. B. Campbell.....	70 00
	1049	Salary .....	J. G. Harrison.....	57 59
	1050	Salary .....	S. E. Andrews.....	50 00
	1051	Salary .....	J. B. Bagley.....	50 00
	1052	Salary .....	O. D. Hargis.....	60 00
	1053	Salary .....	A. Mitchell.....	60 00
	1054	Salary .....	A. C. Snyder.....	37 50
	1055	Salary .....	W. E. Bachman .....	77 77
	1056	Salary .....	Ira Cain.....	40 00
	1057	Salary .....	J. S. Wier.....	120 00
	1058	Salary .....	G. C. Embry.....	60 00
	1059	Salary .....	F. Foley.....	30 00
	1060	Salary .....	R. L. Bennett.....	41 66
	1061	Salary .....	D. Meers.....	75 00
	1062	Salary .....	D. E. Earle.....	60 00
	1063	Salary .....	L. Scholl.....	40 00
	1064	Salary .....	George Grupe.....	100 00
	1065	Salary .....	J. W. Carson.....	45 00
	1066	Salary .....	P. Day.....	90 00
	1067	Salary .....	B. Sbis.....	150 00
	1068	Salary .....	E. D. Joost.....	60 00
	1069	Salary .....	J. E. Lear.....	60 00
	1070	Salary .....	R. P. Marssteller .....	13 33
	1117	Steam plant.....	H. & T. C. Ry Co.....	10 25
	1118	Steam plant.....	F. R. Sontag.....	5 00
	1119	Steam plant.....	I. & G. N. Ry Co.....	24 92
	1120	Steam plant.....	Sam Murray et al.....	7 35
	1121	Steam plant.....	Ivey Foster.....	87 50
	1122	Steam plant.....	R. Robertson.....	6 55
	1123	Horticultural.....		void
	1124	Steam plant.....	Sam Murray.....	4 10
	1125	Horticulture.....	W. F. Express Co.....	80
	1126	Horticulture.....	I. & G. N. Ry Co.....	1 05
	1127	Horticulture.....	E. J. Kyle.....	7 80
	1128	Horticulture.....	E. J. Kyle.....	3 00
	1 29	Horticulture.....	S. A. Minear.....	45 00
	1130	Botanical.....	O. M. Ball.....	3 50
	1131	P. & E. E.....	E. Semmums et al.....	7 50
	1132	Contingent.....	W. F. Express Co.....	35
	1133	Contingent.....	W. F. Express Co.....	35
	1134	Contingent.....	H. C. Sherrard.....	5 00
	1135	Farm husbandry.....	Sam Murray.....	2 00
	1136	Drawing.....	W. F. Express Co.....	1 00
	1137	Drawing.....	W. F. Express Co.....	40
	1138	Veterinary.....	W. J. Andrews.....	11 90
	1139	Contingent.....	H. Schroeter et al.....	50 00
	1140	Janitors.....	W. B. Waltham .....	16 00
	1141	Horticultural.....	Wells Fargo Express.....	80
	1142	Steam plant.....	Wells Fargo Express.....	1 15
	1143	Steam plant.....	I. & G. N. Ry Co.....	42
	1144	Steam plant.....	H. & T. C. Ry Co.....	68
	1145	Steam plant.....	H. & T. C. Ry Co.....	5 53
	1146	Steam plant.....	National Ammonia Co .....	45 60
	1147	Steam plant.....	Ryan & Hanson.....	44 26
	1148	Mechanical.....	F. W. Heitman.....	19 68
	1149	Mechanical.....	J. A. Myers.....	37 40
	1150	Mechanical.....	Austin Book and Stationery Co.....	1 72
	1220	Veterinary.....	M. Francis.....	12 75
	1221	Steam plant.....	Mistrot Bros.....	61 72
	1222	Mechanical.....	Levy Bros.....	7 00

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 30, 1905	1223	Mechanical .....	F. W. Heitman Co.....	\$ 38 52
	1224	Mechanical .....	W. G. Drummond.....	15 50
	1225	Mechanical .....	Browne & Sharp Mfg. Co .....	14 13
	1242	Wood.....	J. H. Suber.....	315 15
Dec. 11, 1905	1275	Campus labor.....	Sam Buchanan et al.....	60 00
	1282	Board of mules.....	Farm department.....	36 00
	1283	Board of mules .....	H. H. Harrington.....	20 00
	1284	Board of mules .....	Wells Fargo Express Co.....	30
	1285	Board of mules .....	W. C. Boyett.....	1 25
	1286	Board of mules.....	Pacific Express Co.....	25
	1287	Board of mules .....	Pacific Express Co.....	25
	1288	Board of mules .....	Joe Harrison.....	2 50
	1289	Veterinary.....	T. R. Carson.....	35 00
	1290	Care of grounds.....	Farm department.....	18 00
	1291	Care of grounds.....	Farm department.....	36 00
	1292	Care of grounds.....	Aug. Thompson.....	60 00
	1293	Steam plant .....	I. & G. N. Ry Co.....	5 30
	1294	Steam plant .....	S. F. Farley et al.....	140 00
	1295	Steam plant.....	I. & G. N. Ry Co.....	40 30
	1296	Animal husbandry.....	I. & G. N. Ry Co.....	25 50
	1297	Animal husbandry.....	Wells Fargo Express Co .....	5 00
	1298	Animal husbandry.....	J. C. Burns.....	20 00
	1299	Textile school.....	N. P. Carson.....	36 00
	1300	Textile school.....	I. & G. N. Ry. Co.....	7 65
	1301	Phys. and elec. engr.....	J. T. Evans.....	24 40
	1302	Horticulture.....	R. L. Spiller et al.....	50 75
	1303	Horticulture.....	Pacific Express Co.....	1 68
	1304	Horticulture.....	E. C. Green.....	18 95
	1305	Mechanical.....	W. Goryzcki.....	40 00
	1306	Mechanical.....	Wells Fargo Express Co.....	95
Dec. 22, 1905	1364	Phys. and elec. engr.....	E. J. Jenkins.....	95
	1387	Veterinary.....	Bellview Chemical Co.....	3 60
	1388	Veterinary.....	E. J. Jenkins.....	7 50
	1389	Veterinary.....	Bryan Tel. Co.....	6 65
	1390	Veterinary.....	J. A. Myers.....	1 55
	1391	Veterinary.....	G. H. & Webb.....	25
	1392	Civil engineering.....	Keuffel & Esser Co.....	22 22
	1393	Drawing.....	F. W. Devoe Co.....	4 85
	1394	Drawing.....	J. Wiley & Sons.....	3 80
	1395	Drawing.....	Taylor Haden Co.....	2 10
	1396	Drawing.....	E. Tucker.....	1 50
	1397	Entomology.....	American Entomology Co.....	23 00
	1398	Entomology.....	American Entomology Co.....	8 00
	1399	Entomology.....	J. A. Myers.....	6 70
	1400	Entomology.....	M. V. Slingerland.....	3 00
	1401	Entomology.....	A. F. Conradi.....	24 65
	1402	Entomology.....	D. C. Milam.....	24 12
	1403	Entomology.....	L. H. Scholl.....	30 35
	1404	Entomology.....	G. D. Benson.....	1 00
	1405	Entomology.....	T. Schmederkind.....	32 50
	1406	Entomology.....	American Entomological Co.....	1 65
	1407	Entomology.....	A. F. Conradi.....	3 99
	1408	Phys. and elec. engr.....	Macey Wernicke Co.....	2 71
	1409	Phys. and elec. engr.....	G. H. & Webb.....	21 05
	1410	Phys. and elec. engr.....	N. H. Brown.....	48 58
	1411	Mechanical.....	Hill Publishing Co.....	2 00
	1412	Mechanical.....	J. B. Shanon & Son.....	1 09
	1413	Mechanical.....	J. A. Myers.....	49 63
	1414	Mechanical.....	F. W. Reed Co.....	1 50
	1415	Mechanical.....	F. W. Heitman Co.....	22 06
	1416	Botanical.....	E. Stieger Co.....	3 77
	1417	Botanical.....	W. L. Bray.....	1 00
	1418	Botanical.....	H. Heil Chemical Co.....	51 84
	1419	Horticulture.....	S. R. & R. Co.....	1 20
	1420	Horticulture.....	J. A. Myers.....	8 73
	1421	Care of grounds.....	G. H. & Webb.....	45 00
	1422	Care of grounds.....	J. A. Myers.....	8 35
	1432	Steam plant .....	Cook & Simmons.....	451 10
	1469	Textile school.....	J. A. Myers.....	3 20
	1470	Textile school.....	G. S. Parker.....	31 80
	1471	Textile school.....	Cole Hardware Co.....	20 00
	1472	Textile school.....	Webber Castello Co.....	16 64
	1473	Bulletins.....	Bryan Eagle.....	8 25
	1474	Contingent.....	J. A. Myers.....	63 16
	1475	Entomology.....	H. Hodges.....	8 85
	1476	Entomology.....	Nernst Lamp Co.....	3 33
	1477	Entomology.....	King Sherer Co.....	11 50



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Dec. 22, 1905	1478	Veterinary.....	Miss Ethel Hutson.....	\$ 18 00
	1479	Steam plant.....	J. J. Jones.....	274 55
	1381	Textile School.....	Harrison & Nelson.....	29 10
Dec. 30, 1905	1484	Salary.....	H. H. Harrington.....	175 00
	1485	Salary.....	R. H. Whitlock.....	125 00
	1486	Salary.....	Charles Puryear.....	125 00
	1487	Salary.....	M. Francis.....	90 00
	1488	Salary.....	F. E. Giesecke.....	120 00
	1489	Salary.....	J. C. Nagle.....	125 00
	1490	Salary.....	C. W. Hutson.....	100 00
	1491	Salary.....	D. W. Spence.....	100 00
	1492	Salary.....	F. S. Johnston.....	120 84
	1493	Salary.....	E. J. Kyle.....	65 00
	1494	Salary.....	O. M. Ball.....	120 00
	1495	Salary.....	N. H. Brown.....	150 00
	1496	Salary.....	J. A. Craig.....	125 00
	1497	Salary.....	R. F. Smith.....	80 00
	1498	Salary.....	T. P. Junkin.....	80 00
	1499	Salary.....	F. R. Marshall.....	75 00
	1500	Salary.....	C. P. Fountain.....	80 00
	1501	Salary.....	W. G. Drummond.....	80 00
	1502	Salary.....	E. C. Green.....	60 00
	1503	Salary.....	C. S. Potts.....	58 33
	1504	Salary.....	G. S. Fraps.....	50 00
	1505	Salary.....	A. H. Haskell.....	70 00
	1506	Salary.....	W. C. Nelson.....	55 55
	1507	Salary.....	J. A. Lomax.....	70 00
	1508	Salary.....	A. F. Conradi.....	45 00
	1509	Salary.....	C. B. Campbell.....	70 00
	1510	Salary.....	J. G. Harrison.....	57 50
	1511	Salary.....	S. E. Andrews.....	50 00
	1512	Salary.....	J. B. Bagley.....	50 00
	1513	Salary.....	O. D. Hargis.....	60 00
	1514	Salary.....	A. Mitchell.....	60 00
	1515	Salary.....	A. C. Snyder.....	37 50
	1516	Salary.....	W. E. Bachman.....	77 77
	1517	Salary.....	Ira Cain.....	40 00
	1518	Salary.....	J. S. Wier.....	120 00
	1519	Salary.....	G. C. Embry.....	60 00
	1520	Salary.....	F. T. Foley.....	30 00
	1521	Salary.....	R. L. Bennett.....	41 66
	1522	Salary.....	D. Meers.....	75 00
	1523	Salary.....	E. E. Earle.....	60 00
	1524	Salary.....	George Grupe.....	100 00
	1525	Salary.....	J. W. Carson.....	45 00
	1526	Salary.....	P. Day.....	90 00
	1527	Salary.....	B. Sbis.....	150 00
	1528	Salary.....	E. D. Joost.....	60 00
	1529	Salary.....	J. E. Lear.....	60 00
	1530	Salary.....	R. P. Marsteller.....	66 66
	1580	P. & E. E.....	G. H. & Webb.....	10 78
Jan. 8, 1905	1658	Janitors.....	Dan Ward et al.....	138 00
	1660	Veterinary.....	H. Nicholson.....	1 25
	1661	Mechanical engineering.....	Pacific Express Co.....	35
	1662	Mechanical engineering.....	Wells Fargo Express Co.....	60
	1663	Mechanical engineering.....	I. & G. N. Ry Co.....	1 73
	1664	Mechanical engineering.....	I. & G. N. Ry Co.....	1 44
	1665	Contingent.....	Wells Fargo Express Co.....	25
	1666	Contingent (N. W.).....	H. Schroeter et al.....	50 00
	1667	Contingent.....	H. Schroeter et al.....	59 35
	1668	Board expenses.....	F. F. Foley.....	1 25
	1669	Botanical.....	O. M. Ball.....	5 85
	1670	Horticulture.....	P. Vytopil et al.....	9 80
	1671	Horticulture.....	Wells Fargo Express Co.....	1 40
	1672	Horticulture.....	P. Vytopil.....	1 50
	1673	Drawing.....	T. Haswell.....	75
	1674	Steam plant.....	I. & G. N. Ry Co.....	12 90
	1675	Steam plant.....	I. & G. N. Ry Co.....	33
	1676	Steam plant.....	I. & G. N. Ry Co.....	35 04
	1677	Steam plant.....	H. & T. C. Ry Co.....	41
	1678	Steam plant.....	H. & T. C. Ry Co.....	23 75
	1679	Steam plant.....	Robert Robinson.....	3 75
	1680	Steam plant.....	Wells Fargo Express Co.....	3 10
	1681	Entomology.....	E. Scholl.....	1 40
	1682	Farm husbandry.....	F. S. Johnston.....	8 80
	1683	Farm husbandry.....	Pacific Express Co.....	1 85
	1684	Farm husbandry.....	Pacific Express Co.....	1 95

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 8, 1905	1685	Farm husbandry.....	Wells Fargo Express Co.....	\$ 1 00
	1686	Farm husbandry.....	H. T. Dyer.....	5 50
	1701	Wood.....	J. H. Suber.....	296 40
	1736	Mechanical engineering.....	F. W. Heitman & Co.....	14 36
	1737	Mechanical engineering.....	J. A. Myers.....	12 95
	1738	Mechanical engineering.....	Armstrong Bros. Tool Co.....	3 60
	1739	Mechanical engineering.....	G. H. & Webb.....	90
	1740	Contingent.....	J. L. Hill.....	15 00
	1741	Contingent.....	Western Union Telegraph Co.....	75
	1742	Contingent.....	Bering Cortes Hardware Co.....	4 60
	1743	Civil engineering.....	Keuffel & Esser Co.....	9 96
	1744	Civil engineering.....	J. A. Myers.....	16 60
	1745	Civil engineering.....	G. H. & Webb.....	13 50
	1746	Drawing.....	E. Dietzgen & Co.....	6 12
	1747	Farm husbandry.....	Elmer & Amend.....	13 71
	1748	Veterinary.....	Stevenson M. & R. Co.....	60
	1749	Steam Plant.....	Byan & Hanson.....	56 96
	1750	Steam Plant.....	Hartwell Iron Works.....	35 10
	1751	Steam Plant.....	F. W. Hietmann Co.....	22 18
	1752	Steam Plant.....	Amn. Steam Pump Co.....	18 30
	1753	Steam Plant.....	T. Padgett Co.....	30 65
	1754	Steam Plant.....	W. P. Oil Co.....	53 72
	1755	Veterinary.....	J. A. Myers.....	6 35
	1756	Veterinary.....	W. J. Christian.....	75
	1788	Steam Plant.....	J. A. Myers.....	2 50
	1789	Steam Plant.....	Ryan & Hanson.....	86 15
	1790	P. & E. E.....	McGraw Publishing Co.....	1 10
	1791	P. & E. E.....	J. A. Myers.....	22 11
	1792	P. & E. E.....	E. R. Emerald.....	2 35
	1793	P. & E. E.....	General Electric Co.....	8 80
	1794	P. & E. E.....	J. A. Myers.....	85
	1795	P. & E. E.....	M. H. James.....	2 00
	1796	P. & E. E.....	Duncan Hobson Electric Co.....	146 74
	1797	P. & E. E.....	McMillen Co.....	2 48
	1798	P. & E. E.....	General Electric Co.....	14 05
	1 99	P. & E. E.....	W. Electrical.....	1 96
	1800	P. & E. E.....	Telephony Publishing Co.....	1 00
	1801	P. & E. E.....	G. H. & Webb.....	48 38
	1802	Drawing.....	A. D. MacLachlan.....	4 00
	1803	Drawing.....	Bates & Gill Co.....	3 00
	1804	Veterinary.....	Cole Hardware Co.....	2 90
	1805	Steam Plant.....	M. H. James.....	25
	1806	Farm husbandry.....	J. Wiley & Son.....	2 67
	1839	Wood.....	J. J. Jones.....	274 55
Jan. 11, 1905	1856	Steam Plant.....	Cole Hardware Co.....	8 40
	1857	Entomology.....	Cole Hardware Co.....	4 15
	1858	Entomology.....	J. A. Myers.....	1 20
	1859	Entomology.....	J. T. Hanway.....	2 45
	1860	Entomology.....	T. V. Munson & Son.....	60
	1861	Entomology.....	Emmil & Maloney.....	1 00
	1862	Care of roads.....	J. A. Myers.....	12 95
	1863	Care of roads.....	H. Heil Chem. Co.....	4 11
	1864	Care of roads.....	E. R. Emmel.....	1 60
	1865	Contingent.....	J. L. Wortham.....	37 20
	1866	Contingent.....	G. S. Parker.....	9 40
	1868	Horticulture.....	Howell Bros.....	75
	1869	Horticulture.....	J. A. Myers.....	42 40
	1870	Horticulture.....	E. Nelson.....	21 00
	1871	Farm husbandry.....	Page Woven Wire Fence Co.....	10 00
	2003	Contingent.....	J. A. Myers.....	19 13
	2004	Contingent.....	T. H. Kessler & Co.....	2 40
	2005	Contingent.....	Austin Book and Stationery Co.....	4 58
Jan. 20, 1905	2006	Care of grounds.....	Farm Department.....	1 65
	2007	Horticulture.....	Plumbing Acct.....	11 00
	2008	Foul brood.....	Prairie S. Incubator Co.....	10 00
	2010	Wood.....	J. H. Suber.....	180 50
	2086	Janitors.....	E. Sessums.....	8 55
	2087	Janitors.....	E. Sessums.....	134 00
	2088	Janitors.....	P. Ruchti.....	10 00
	2089	Steam Plant.....	S. F. Farley et al.....	205 35
	2090	Steam Plant.....	Stevenson Mach. and Repair Wks... Pacific Express Co.....	1 90 35
	2091	Steam Plant.....	C. Carson et al.....	6 75
	2092	Steam Plant.....	I. & G. N. Ry. Co.....	26 60
	2093	Steam Plant.....	I. & G. N. Ry. Co.....	10 72
	2094	Steam Plant.....	I. & G. N. Ry. Co.....	13 52
	2095	Steam Plant.....	I. & G. N. Ry. Co.....	11 56
	2096	Steam Plant.....	I. & G. N. Ry. Co.....	

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 20, 1905	2097	Steam Plant .....	H. & T. C. Ry. Co.....	\$ 1 54
	2098	Steam Plant.....	H. & T. C. Ry. Co.....	52
	2099	Horticulture .....	Wells Fargo Express Co.....	85
	2100	Veterinary.....	Geo. Henry.....	4 25
	2101	Veterinary.....	W. Gorzycki et al.....	40 00
	2102	Veterinary.....	H. & T. C. Ry. Co.....	1 37
	2103	Veterinary.....	I. & G. N. Ry. Co.....	1 42
	2104	Veterinary.....	Pacific Express Co.....	45
	2105	Animal husbandry .....	H. & T. C. Ry. Co.....	7 38
	2106	Care of grounds.....	Aug. Thompson.....	60 00
	2107	Textile school.....	S. H. Pierce et al.....	4 44
	2108	Textile school.....	N. F. Carson.....	22 00
	2109	Contingent.....	I. & G. N. Ry Co.....	4 61
	2110	Laborers.....	S. Buchanan et al.....	60 00
	2111	Contingent.....	Pacific Express Co.....	25
	2112	Contingent.....	Wells Fargo Express Co.....	30
	2113	Contingent.....	Wells Fargo Express Co.....	35
	2114	Contingent.....	H. H. Harrington.....	1 96
	2115	Farm husbandry.....	A. Hamilton.....	1 00
Jan. 25, 1905	2116	Contingent.....	I. H. Newton.....	537 00
	2127	Salary.....	H. H. Harrington.....	175 00
	2128	Salary.....	R. H. Whitlock.....	125 00
	2129	Salary.....	Charles Puryear.....	125 00
Jan. 30, 1905	2130	Salary.....	M. Francis.....	90 00
	2131	Salary.....	F. E. Giesecke.....	120 00
	2132	Salary.....	J. C. Nagle.....	125 00
	2133	Salary.....	C. W. Hutson.....	100 00
	2134	Salary.....	D. W. Spence.....	100 00
	2135	Salary.....	F. S. Johnson.....	120 84
	2136	Salary.....	E. J. Kyle.....	65 00
	2137	Salary.....	O. M. Ball.....	120 00
	2138	Salary.....	N. H. Brown.....	150 00
	2139	Salary.....	J. A. Craig.....	125 00
	2140	Salary.....	R. F. Smith.....	80 00
	2141	Salary.....	T. P. Junkin.....	80 00
	2142	Salary.....	F. R. Marshall.....	75 00
	2143	Salary.....	W. G. Drummond.....	80 00
	2144	Salary.....	C. P. Fountain.....	80 00
	2145	Salary.....	E. C. Green.....	60 00
	2146	Salary.....	C. S. Potts.....	58 33
	2147	Salary.....	G. S. Fraps.....	50 00
	2148	Salary.....	A. A. Haskell.....	70 00
	2149	Salary.....	W. C. Nelson.....	55 55
	2150	Salary.....	J. A. Lomax.....	70 00
	2151	Salary.....	A. F. Conradi.....	45 00
	2152	Salary.....	C. B. Campbell.....	70 00
	2153	Salary.....	J. G. Harrison.....	57 50
	2154	Salary.....	S. E. Andrews.....	50 00
	2155	Salary.....	J. B. Bagley.....	50 00
	2156	Salary.....	O. D. Hargis.....	60 00
	2157	Salary.....	A. Mitchell.....	60 00
	2158	Salary.....	A. C. Snyder.....	37 50
	2159	Salary.....	W. E. Bachman.....	77 77
	2160	Salary.....	Ira Cain.....	40 00
	2161	Salary.....	J. S. Wier.....	120 00
	2162	Salary.....	G. C. Embry.....	60 00
	2163	Salary.....	F. T. Foley.....	30 00
	2164	Salary.....	R. L. Bennett.....	41 66
	2165	Salary.....	D. Meers.....	75 00
	2166	Salary.....	D. E. Earle.....	60 00
	2167	Salary.....	George Grupe.....	100 00
	2168	Salary.....	J. W. Carson.....	45 00
	2169	Salary.....	P. Day.....	90 00
	2170	Salary.....	B. Sbis.....	150 00
	2171	Salary.....	E. D. Joost.....	60 00
	2172	Salary.....	J. E. Lear.....	60 00
	2173	Salary.....	R. P. Marsteller.....	66 66
	2284	Entomology.....	American Entomological Society...	7 35
	2285	Entomology.....	American Entomological Society...	26 91
	2286	Entomology.....	G. H. & Webb.....	4 65
	2287	Entomology.....	W. T. Davis.....	2 00
	2288	Entomology.....	A. F. Conradi.....	10 50
	2289	Entomology.....	A. F. Conradi.....	6 35
	2290	Entomology.....	Howell Bros.....	19 60
	2291	Civil engineering.....	J. C. Nagle.....	26 33
	2292	Civil engineering.....	Hill Bros.....	20 85
	2293	Civil engineering.....	T. Haswell.....	3 25



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 30, 1905	2294	Steam plant.....	C. C. Calhoun .....	\$ 2 00
	2295	Steam plant.....	F. W. Heitman & Co.....	25 49
	2296	Steam plant.....	W. P. Oil Co.....	14 84
	2297	Steam plant.....	Alden Spears Co.....	4 22
	2298	Steam plant.....	Ryan & Hanson.....	97 32
	2299	Animal husbandry.....	Bryan Cotton Oil Mill Co.....	60 00
	2300	Animal husbandry.....	W. J. Andrews.....	5 45
	2301	Animal husbandry.....	G. P. Foster & Co.....	7 00
	2302	Animal husbandry.....	Experiment Station.....	140 00
	2303	Contingent.....	A. B. Dick & Co.....	50
Jan. 31, 1905	2304	Care of grounds.....	J. L. Childs.....	7 50
	2305	Textile.....	G. H. & Webb.....	5 45
	2306	Textile.....	T. Haswell.....	13 85
	2307	Textile.....	G. S. Parker.....	6 00
Feb. 1, 1905	2324	Care of grounds.....	Farm department.....	29 60
	2325	Care of grounds.....	Farm department.....	29 60
	2326	Care of grounds.....	Farm department.....	29 60
	2327	Care of grounds.....	Farm department.....	29 60
	2328	Care of grounds.....	Farm department.....	19 74
Feb. 2, 1905	2361	Steam plant.....	I. & G. N. Ry. Co.....	14 36
	2362	Steam plant.....	I. & G. N. Ry. Co.....	10 72
	2363	Steam plant.....	I. & G. N. Ry. Co.....	26 42
	2364	Steam plant.....	I. & G. N. Ry. Co.....	12 54
	2365	Drawing.....	Wells Fargo Express Co.....	30
	2366	Farm husbandry.....	Wells Fargo Express Co.....	45
	2367	Mechanical engineering.....	Wells Fargo Express Co.....	25
	2368	Contingent.....	Wells Fargo Express Co.....	35
	2369	Contingent.....	W. C. Boyett.....	5 00
	2370	Contingent.....	Wells Fargo Express Co.....	30
	2371	Contingent.....	Wells Fargo Express Co.....	30
	2372	Contingent.....	Pacific Express Co.....	30
	2373	Textile.....	J. S. Wier.....	3 74
	2374	Textile.....	H. & T. C. Ry. Co.....	1 46
	2375	Textile.....	H. & T. C. Ry. Co.....	1 39
	2376	Textile.....	Wells Fargo Express Co.....	2 75
	2377	Civil engineering.....	Jim Andrews et al.....	14 40
	2378	Janitors.....	W. Richard.....	9 00
Feb. 5, 1905	2383	Wood.....	J. H. Suber.....	199 50
	2415	Board expenses.....	G. T. Jester.....	18 80
	2416	Care of grounds.....	J. A. Myers.....	10 15
	2417	Steam plant.....	Ryan & Hanson.....	60 48
	2418	Textile.....	G. H. & Webb.....	10 45
	2419	Textile.....	Cole Hardware Co.....	2 85
	2420	Textile.....	Davidson Publishing Co.....	4 00
	2421	Textile.....	Bering Drug Co.....	32 00
	2422	Textile.....	Cole Hardware Co.....	5 75
	2423	Textile.....	American Supply Co.....	40 34
	2424	Contingent.....	G. S. Parker.....	16 65
	2425	Contingent.....	Southwestern Telephone Co.....	6 50
	2426	Contingent.....	M. Francis.....	6 90
	2427	Contingent.....	G. H. & Webb.....	12 10
	2428	Mechanical engineering.....	McLaughlin Bros.....	2 25
	2429	Mechanical engineering.....	F. W. Heitman & Co.....	5 32
Feb. 10, 1905	2467	Farm husbandry.....	J. H. Piper.....	2 50
	2468	Animal husbandry.....	F. R. Marshall.....	41 80
	2469	Contingent.....	J. A. Myers.....	47 93
	2470	P. and E. E.....	Central Scientific Co.....	195 55
	2471	P. and E. E.....	N. H. Brown.....	63 21
	2472	P. and E. E.....	Keuffel & Esser.....	4 15
	2473	P. and E. E.....	Interstate Electric Co.....	27 35
	2474	P. and E. E.....	General Electric Co.....	13 00
	2475	P. and E. E.....	Duncan Hobson Electric Co.....	9 96
	2476	P. and E. E.....	J. M. Caldwell.....	3 00
	2477	P. and E. E.....	Pope Webbing Co.....	5 25
	2478	P. and E. E.....	G. H. & Webb.....	1 70
	2479	Mycology.....	H. Heil Chemical Co.....	3 75
	2480	Mycology.....	T. J. Fitzpatrick.....	3 15
Feb. 15, 1905	2481	Mycology.....	B. B. Wilkins.....	60 00
	2537	Steam plant.....	S. F. Farley et al.....	240 65
	2538	Steam plant.....	Pacific Express Co.....	1 25
	2539	Steam plant.....	I. & G. N. Ry. Co.....	36 00
	2540	Mechanical engineering.....	Pacific Express Co.....	60
	2541	Farm husbandry.....	Wells Fargo Express Co.....	90
	2552	Mechanical engineering.....	W. Gorzycki et al.....	40 00
	2543	Animal husbandry.....	Will Richard.....	4 00
	2544	Animal husbandry.....	International Live Stock Expos'n ..	10 00
	2545	Care of grounds.....	Aug. Thompson ..	60 00

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Feb. 15, 1905	2546	Horticulture.....	E. J. Kyle.....	\$ 5 15
	2547	Horticulture.....	E. C. Green.....	4 30
	2548	Horticulture.....	W. V. Glass et al.....	96 65
	2549	Contingent.....	H. Schroeter et al.....	79 00
	2550	Contingent.....	G. C. Embry.....	5 50
	2551	Contingent.....	W. C. Boyett.....	2 00
	2552	Contingent.....	Wells Fargo Express Co.....	25
	2553	Contingent.....	Wells Fargo Express Co.....	30
	2554	Contingent.....	Wells Fargo Express Co.....	25
	2555	Contingent.....	Geo. Easter et al.....	7 40
	2556	Contingent.....	Pacific Express Co.....	55
	2557	Janitors.....	Jas. Ramsay.....	13 00
	2558	Laborers.....	S. Buchanan et al.....	60 00
	2559	Janitors.....	A. Cox et al.....	172 46
	2560	Textile school.....	N. F. Carson.....	30 00
	2610	Entomology.....	Cole Hardware Co.....	75
	2611	Entomology.....	E. C. Harder.....	7 33
	2612	Botanical.....	New York Botanical Garden.....	3 00
	2613	Steam plant.....	J. L. Wortham.....	64 50
	2614	Steam plant.....	Dean Steam Pump Co.....	6 00
	2615	Steam plant.....	Cole hardware Co.....	2 55
	2616	Steam plant.....	A. W. Buchanan.....	1 50
	2617	Steam plant.....	Ryan & Hanson.....	61 55
	2618	Steam plant.....	F. W. Heitmann.....	28 27
	2619	Veterinary.....	Ward's Anatom. Laboratory.....	52 77
	2620	Contingent.....	Remington Typewriter Co.....	90 00
	2621	Textile.....	Bering Manufacturing Co.....	1 25
	2622	Farm husbandry.....	Austin Book and Stationery Co.....	11 50
	2623	Drawing.....	G. H. & Webb.....	8 40
	2624	Drawing.....	Clarke & Courts.....	5 50
	2625	Entomology.....	J. T. Hanway.....	1 00
	2626	Mechanical engineering.....	Straight Line Engine Co.....	10 90
	2627	Mechanical engineering.....	G. H. & Webb.....	5 60
	2628	Mechanical engineering.....	Bullard Automatic Wrench Co.....	87
	2629	Mechanical engineering.....	Thos. Audel Co.....	3 20
	2630	Mechanical engineering.....	J. A. Myers.....	17 20
Feb. 20, 1905	2774	Steam plant.....	Wells Fargo Express Co.....	2 10
	2775	Steam plant.....	Geo. Henry et al.....	12 90
	2776	Steam plant.....	I. & G. N. Ry. Co.....	24 04
	2777	Horticulture.....	E. J. Kyle.....	4 97
	2778	Mechanical engineering.....	Pacific Express Co.....	1 00
	2779	Mechanical engineering.....	Wells Fargo Express Co.....	45
	2680	Drawing.....	Wells Fargo Express Co.....	1 20
	2681	Drawing.....	Joe Green.....	19 20
Feb. 24, 1905	2682	Animal husbandry.....	R. F. Miller.....	35
	2683	Contingent.....	Pacific Express Co.....	25
	2684	Contingent.....	Wells Fargo Express Co.....	30
	2685	Contingent.....	Wells Fargo Express Co.....	25
	2686	Contingent.....	John Foster et al.....	*4 55
	2688	Textile.....	H. & T. C. Ry. Co.....	36
	2689	Textile.....	W. C. Boyett.....	2 00
	2691	Salary.....	H. H. Harrington.....	175 00
	2692	Salary.....	R. H. Whitlock.....	125 00
	2693	Salary.....	Charles Puryear.....	125 00
	2694	Salary.....	M. Francis.....	90 00
	2695	Salary.....	F. E. Giesecke.....	120 00
	2696	Salary.....	J. C. Nagle.....	125 00
	2697	Salary.....	C. W. Hutson.....	100 00
	2698	Salary.....	D. W. Spence.....	100 00
	2699	Salary.....	F. S. Johnston.....	120 84
	2700	Salary.....	E. J. Kyle.....	65 00
	2701	Salary.....	O. M. Ball.....	120 00
	2702	Salary.....	N. H. Brown.....	150 00
	2703	Salary.....	J. A. Craig.....	125 00
	2704	Salary.....	R. F. Smith.....	80 00
	2705	Salary.....	T. P. Junkin.....	80 00
	2706	Salary.....	F. R. Marshall.....	75 00
	2707	Salary.....	C. P. Fountain.....	80 00
	2708	Salary.....	W. G. Drummond.....	80 00
	2709	Salary.....	E. C. Green.....	60 00
	2710	Salary.....	C. S. Potts.....	58 33
	2711	Salary.....	G. S. Fraps.....	50 00
	2712	Salary.....	A. A. Haskell.....	70 00
	2713	Salary.....	W. C. Nelson.....	85 55
	2714	Salary.....	J. A. Lomax.....	70 00
	2715	Salary.....	A. F. Conradi.....	45 00
	2716	Salary.....	C. B. Campbell.....	70 00

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Feb. 24, 1905	2717	Salary.....	J. G. Harrison.....	\$ 57 50
	2718	Salary.....	S. E. Andrews.....	50 00
	2719	Salary.....	J. B. Bagley.....	50 00
	2820	Salary.....	O. D. Hargis.....	60 00
	2821	Salary.....	A. Mitchell.....	60 00
	2822	Salary.....	A. C. Snyder.....	37 50
	2823	Salary.....	W. E. Bachman.....	77 77
Feb. 28, 1905	2824	Salary.....	Ira Cain.....	40 00
	2825	Salary.....	J. S. Wier.....	120 00
	2826	Salary.....	G. C. Embry.....	60 00
	2827	Salary.....	F. T. Foley.....	30 00
	2828	Salary.....	R. L. Bennett.....	41 66
	2829	Salary.....	D. Meers.....	75 00
	2730	Salary.....	D. E. Earle.....	60 00
	2731	Salary.....	Geo. Grupe.....	100 00
	2732	Salary.....	J. W. Carson.....	45 00
	2733	Salary.....	P. Day.....	90 00
	2734	Salary.....	B. Sblisa.....	150 00
	2735	Salary.....	E. D. Joost.....	34 00
	2736	Salary.....	J. E. Lear.....	60 00
	2737	Salary.....	R. P. Marsyeller.....	66 66
	2758	Salary.....	C. E. Martholomew.....	66 66
	2739	Salary.....	Nathan Powell.....	83 33
Mar. 2, 1905	2810	Wood.....	J. H. Suber.....	136 80
Mar. 10, 1905	2867	Steam plant.....	F. W. Heitmann & Co.....	8 68
	2868	Steam plant.....	Ryan & Hanson.....	61 45
	2869	Steam plant.....	Ryan & Hanson.....	39 48
	2870	Steam plant.....	Alden Spears & Co.....	4 23
	2871	Steam plant.....	A. Rumsay Manufacturing Co.....	11 40
	2872	Steam plant.....	Waters-Pierce Oil Co.....	6 16
	2873	Steam plant.....	W. Coulter.....	30
	2874	Steam plant.....	American Well Works.....	8 75
	2875	Botanical.....	University of Chicago press.....	3 99
	2876	Mechanical engineering.....	F. W. Heitmann & Co.....	25 28
	2877	Mechanical engineering.....	J. M. Tate.....	2 11
	2878	Farm husbandry.....	H. L. Wilson.....	3 00
	2879	Farm husbandry.....	Texas Seed and Floral Co.....	11 25
	2880	Farm husbandry.....	J. A. Myers.....	3 25
	2881	Horticulture.....	Texas Seed and Floral Co.....	1 00
	2882	Civil engineering.....	G. H. & Webb.....	41 12
	2883	Civil engineering.....	J. A. Myers.....	8 10
	2884	Drawing.....	J. Wiley & Sons.....	3 85
	2885	Drawing.....	J. John.....	31 50
	2886	Entomology.....	Austin Book and Stationery Co.....	4 10
	2887	Entomology.....	Austin Book and Stationery Co.....	2 00
	2888	Entomology.....	Galveston N. and Orchard Co.....	1 45
	2889	Entomology.....	Lawrence Publishing Co.....	1 00
	2890	Contingent.....	Austin Book and Stationery Co.....	19 68
	2891	Contingent.....	Austin Book and Stationery Co.....	9 60
	2892	Contingent.....	James Bute.....	30 09
	2893	Contingent.....	W. C. Boyett.....	13 34
	2894	Contingent.....	State Printing Co.....	1 32
	2944	Laborers.....	J. Carroll et al.....	60 00
	2945	Laborers.....	S. Buchanan et al.....	60 00
	2946	Janitors.....	A. Cox et al.....	138 45
	2947	Horticulture.....	E. J. Kyle.....	void
	2948	Textile.....	Wells Fargo Express.....	1 60
	2949	Textile.....	N. F. Carson.....	30 00
	2950	Drawing.....	T. Haswell.....	90
	2951	Care of grounds.....	Aug. Thompson.....	60 00
	2952	Animal husbandry.....	J. J. Caldwell.....	1 75
	2953	Animal husbandry.....	C. M. Evans et al.....	29 10
	2954	Contingent.....	John Foster et al.....	9 40
	2955	Contingent.....	John Foster et al.....	3 15
	2956	Contingent.....	I. & G. N. Ry.....	2 98
	2957	Contingent.....	W. C. Boyett.....	4 50
	2958	Contingent.....	W. C. Boyett.....	20 00
	2959	Contingent.....	W. F. Express.....	55
	2960	Steam plant.....	I. & G. N. Ry.....	13 64
	2961	Steam plant.....	I. & G. N. Ry.....	13 80
	2962	Steam plant.....	S. F. Farley et al.....	207 30
	2963	Farm husbandry.....	H. & T. C. Ry.....	4 94
	2964	Farm husbandry.....	Wells Fargo Express.....	1 65
	2965	Mechanical engineering.....	I. & G. N. Ry.....	8 72
	2966	Mechanical engineering.....	Wells Fargo Express.....	1 00
	2967	Mechanical engineering.....	W. Gorzycki.....	40 00
	2968	Steam plant.....	I. & G. N. Ry.....	23 30



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Mar. 10, 1905	2969	Steam plant.....	I. & G. N. Ry.....	\$ 1 21
	2970	Botanical.....	O. M. Ball.....	3 95
	2971	Foul brood.....	E. Scholl.....	14 37
Mar. 15, 1905	3058	Mechanical engineering....	J. B. Shannon & Son.....	47 70
	3059	Mechanical engineering....	F. W. Heitman & Co.....	1 49
	3060	Mechanical engineering....	J. A. Myers.....	12 25
	3061	Mechanical engineering....	W. Powell Co.....	4 24
	3062	Mechanical engineering....	Domestic Engineering.....	2 00
	3063	Mechanical engineering....	Philip Carrier Manufacturing Co...	7 52
	3064	Mechanical engineering....	Progressive Age Publishing Co.....	2 00
	3065	Mechanical engineering....	Wagner & Brandon.....	1 00
	3066	Entomology.....	Texas Seed and Floral Co.....	2 60
	3067	Entomology.....	A. F. Conradi.....	86 17
	3068	Entomology.....	E. C. Harder & Co.....	5 55
	3069	Entomology.....	G. H. & Webb.....	45 00
	3070	Animal husbandry.....	I. & G. N. Ry. Co.....	7 28
	3071	Animal husbandry.....	F. S. Wilcox.....	30
	3072	Animal husbandry.....	C. C. Calhoun.....	1 70
	3073	Animal husbandry.....	A. W. Buchanan & Co.....	50
	3074	Animal husbandry.....	E. C. Harder & Co.....	57 82
	3075	Animal husbandry.....	Howell Bros.....	1 90
	3076	Foul brood.....	G. H. & Webb.....	11 40
Mar. 17, 1905	3123	Board expenses.....	H. H. Harrington.....	11 50
	3124	Animal husbandry.....	C. M. Evans et al.....	19 45
	3125	Drawing.....	Pacific Express Co.....	70
	3126	Drawing.....	J. O. Green.....	3 15
	3127	Horticulture.....	E. J. Kyle.....	11 85
	3128	Mechanical engineering....	H. & T. C. Ry. Co.....	2 27
	3129	Farm husbandry.....	H. & T. C. Ry. Co.....	3 49
	3130	Farm husbandry.....	Jim Andrews.....	1 00
	3131	Farm husbandry.....	Hinchliffe & Pin Co.....	9 00
	3132	Contingent.....	H. & T. C. Ry. Co.....	2 75
	3133	Contingent.....	Wells Fargo Express Co.....	30
	3134	Contingent.....	H. Schroeter et al.....	65 00
	3135	Contingent.....	I. & G. N. Ry. Co.....	52 80
	3136	Contingent.....	H. H. Harrington.....	4 00
	3137	Contingent.....	H. H. Harrington.....	103 50
	3138	Contingent.....	H. H. Harrington.....	5 00
Mar. 30, 1905	3143	Contingent.....	T. Haswell.....	35
	3144	Contingent.....	Hobson Electric Co.....	28 60
	3145	Contingent.....	Tobins Book Store.....	15 08
	3146	Contingent.....	J. A. Myers.....	28 15
	3147	Contingent.....	J. A. Myers.....	32 93
	3148	Contingent.....	N. Randolph & Sons.....	6 00
	3149	Contingent.....	N. Randolph & Sons.....	7 69
	3150	Contingent.....	N. Randolph & Sons.....	96
	3251	Contingent.....	State Printing Board.....	2 43
	3152	Contingent.....	Bering Cortes Hardware Co.....	7 50
	3153	Steam Plant.....	Farm Department.....	14 80
	3154	Steam Plant.....	Farm Department.....	14 80
	3155	Steam Plant.....	Gulf Refining Co.....	31 83
	3156	Steam Plant.....	Ryan & Hanson.....	61 62
	3157	Bulletins.....	State Printing Co.....	85
	3158	Bulletins.....	State Printing Co.....	1 70
	3159	Civil engineering.....	Austin Book and Stationery Co.....	29 06
	3160	Entomology.....	H. Heil Chemical Co.....	19 41
	3161	Entomology.....	Tobins Book Store.....	0
	3162	Mechanical engineering....	Tobins Book Store.....	1 58
	3163	Mechanical engineering....	Austin Book and Stationery Co.....	3 75
	31 4	Animal husbandry.....	R. J. Patterson.....	15 75
	3165	Care of grounds.....	Farm Department.....	29 60
	3166	Care of grounds.....	Farm Department.....	29 60
	3167	Care of grounds.....	J. A. Myers.....	3 75
	3168	Care of grounds.....	J. W. Thornburn & Co.....	4 95
	3196	Salary.....	H. H. Harrington.....	175 00
	3197	Salary.....	R. H. Whitlock.....	125 00
	3198	Salary.....	Charles Puryear.....	125 00
	3199	Salary.....	M. Francis.....	90 00
	3200	Salary.....	F. E. Glesecke.....	120 00
	3201	Salary.....	J. O. Nagle.....	125 00
	3202	Salary.....	C. W. Hutson.....	100 00
	3203	Salary.....	D. W. Spence.....	100 00
	3204	Salary.....	F. S. Johnston.....	120 84
	3205	Salary.....	E. J. Kyle.....	65 00
	3206	Salary.....	O. M. Ball.....	120 00
	3207	Salary.....	N. H. Brown.....	150 00
	3208	Salary.....	J. A. Craig.....	125 00

Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Mar. 30, 1905	3209	Salary .....	R. F. Smith.....	\$ 80 00
	3210	Salary .....	T. P. Junkin.....	80 00
	3211	Salary .....	F. R. Marshall.....	75 00
	3212	Salary .....	C. P. Fountain.....	80 00
	3213	Salary .....	W. G. Drummond.....	80 00
	3214	Salary .....	E. C. Green.....	60 00
	3215	Salary .....	O. S. Potts.....	58 33
	3216	Salary .....	G. S. Fraps.....	50 00
	3217	Salary .....	A. A. Haskell.....	70 00
	3218	Salary .....	W. C. Nelson.....	55 55
	3219	Salary .....	J. A. Lomax.....	70 00
	3220	Salary .....	A. F. Conradi.....	45 00
	3221	Salary .....	C. B. Campbell.....	70 00
	3222	Salary .....	J. G. Harrison.....	57 50
	3223	Salary .....	S. E. Andrews.....	50 00
	3224	Salary .....	J. B. Bagley.....	50 00
	3225	Salary .....	O. D. Hargis.....	60 00
	3226	Salary .....	A. Mitchell.....	60 00
	3227	Salary .....	A. G. Snyder.....	37 50
	3228	Salary .....	W. E. Bachman.....	77 77
	3229	Salary .....	J. S. Wier.....	120 00
	3230	Salary .....	G. C. Embry.....	60 00
	3231	Salary .....	F. T. Foley.....	30 00
	3232	Salary .....	R. L. Bennett.....	41 66
	3233	Salary .....	D. Meers.....	75 00
	3234	Salary .....	D. E. Earle.....	60 00
	3235	Salary .....	George Grupe.....	100 00
	3236	Salary .....	J. W. Carson.....	45 00
	3237	Salary .....	P. Day.....	90 00
	3238	Salary .....	B. Sbis.....	150 00
	3239	Salary .....	J. E. Lear.....	60 00
	3240	Salary .....	R. P. Marsteller.....	66 60
	3241	Salary .....	Nathan Powell.....	83 33
	3242	Salary .....	C. E. Bartholomew.....	66 66
	3243	Salary .....	Mrs. Ira Cain.....	40 00
	3244	Salary .....	A. Nunley.....	30 00
	3245	Mechanical engineering.....	F. W. Heitman & Co.....	7 34
	3246	Mechanical engineering.....	G. H. & Webb.....	3 20
	3247	Drawing.....	Engineering News Pub. Co.....	4 00
	3248	Drawing.....	Engineering Review Co.....	1 00
	3249	Drawing.....	Rogers & Manson.....	5 00
	3250	Contingent.....	Wells Fargo Express.....	25
	3251	Contingent.....	Wells Fargo Express.....	25
	3252	Contingent.....	Wells Fargo Express.....	25
	3253	Contingent.....	Wells Fargo Express.....	1 30
	3254	Contingent.....	John Foster et al.....	5 05
	3255	Textile.....	H. & T. C. Ry.....	47
	3256	Textile.....	H. & T. C. Ry.....	17 47
	3257	Textile.....	H. & T. C. Ry.....	8 09
	3258	Textile.....	H. & T. C. Ry.....	13 54
	3259	Textile.....	W. C. Boyett.....	2 00
	3260	Care of grounds.....	H. & T. C. Ry.....	7 38
	3261	Care of grounds.....	H. & T. C. Ry.....	1 78
	3262	Care of grounds.....	Wells Fargo Express.....	70
	3263	Board expenses.....	S. E. Andrews.....	17 20
	3264	Farm husbandry.....	H. & T. C. Ry.....	1 60
	3265	Farm husbandry.....	George Pearce.....	8 00
	3266	Drawing.....	F. E. Giesecke.....	5 25
	3267	Horticulture.....	J. H. Piper.....	12 90
	3268	Mechanical engineering.....	I. & G. N. Ry.....	1 08
	3269	Mechanical engineering.....	W. C. Boyett.....	10 60
	3270	Steam plant.....	I. & G. N. Ry.....	48 24
	3271	Steam plant.....	H. & T. C. Ry.....	42
	3272	Steam plant.....	A. Anderson et al.....	17 60
	3273	Contingent.....	W. C. Boyett.....	24 03
Apr. 10, 1905	3274	Board expenses.....	L. D. Amsler.....	40 30
	3275	Mechanical engineering.....	J. A. Myers.....	12 25
	3276	Drawing.....	Longmans, Green & Co.....	1 70
	3277	Foul brood.....	Gunn Furniture Co.....	34 65
	3278	Civil engineering.....	M. C. Clarke.....	86 06
	3279	Civil engineering.....	J. A. Myers.....	63 32
	3280	Steam plant.....	W. P. Oil Co.....	15 66
	3281	Steam plant.....	Ryan & Hanson.....	76 36
	3282	Contingent.....	Western Union Telegraph Co.....	90
	3283	Textile.....	L. M. Ramsay Manufacturing Co.....	34 91
	3284	Animal husbandry.....	E. C. Harder & Co.....	87 80
	3285	Animal husbandry.....	J. A. Myers.....	7 46

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Apr. 10, 1905	3414	Animal husbandry.....	G. H. & Webb .....	\$ 12 84
	3415	Animal husbandry .....	F. R. Marshall .....	17 70
	3416	Bulletins.....	Bryan Eagle .....	115 25
	3417	Drawing.....	D. Van Nostrand Co.....	1 42
Apr. 17, 1905	3570	Laborers.....	J. Carroll et al.....	60 00
	3571	Janitors.....	J. A. Capps.....	143 70
	3572	Entomology.....	E. Scholl.....	11 25
	3573	Horticultural.....	W. V. Glass et al.....	101 00
	3574	Horticultural.....	E. C. Green.....	10 30
	3575	Horticultural.....	H. Nixon.....	6 00
	3576	Horticultural.....	John Nero.....	21 35
	3577	Civil engineering.....	J. C. Nagle.....	14 30
	3578	Care of grounds.....	Aug. Thompson.....	60 00
	3579	Contingent.....	Western Union Telegraph Co.....	25
	3580	Contingent.....	Wells Fargo Express Co.....	30
	3581	Contingent.....	Wells Fargo Express Co.....	40
	3582	Contingent.....	W. C. Boyett.....	2 00
	3583	Contingent.....	C. G. Brown.....	6 00
	3584	Steam plant.....	I. & G. N. Ry.....	34 82
	3585	Steam plant.....	I. & G. N. Ry.....	33
	3586	Steam plant.....	I. & G. N. Ry.....	37 66
	3587	Steam plant.....	I. & G. N. Ry.....	33
	3588	Steam plant.....	S. F. Farley et al.....	223 30
	3589	Textile.....	I. & G. N. Ry.....	8 89
	3590	Textile.....	I. & G. N. Ry.....	2 92
	3591	Textile.....	W. C. Boyett.....	4 00
	3592	Textile.....	N. F. Carson.....	30 00
	3593	Mechanical engineering.....	Pacific Express Co.....	30
	3594	Mechanical engineering.....	W. Gorzycki et al.....	40 00
	3595	Drawing.....	H. & T. C. Ry.....	1 37
	3596	Board Expenses.....	H. H. Harrington.....	5 50
	3597	Board expenses.....	K. K. Legett.....	17 10
Apr. 23, 1905	3629	Botanical.....	D. B. Wilkins & Bros.....	15 00
	3630	Botanical.....	Lemcke & Buchner.....	2 75
	3631	Botanical.....	Lemcke & Buchner.....	1 88
	3632	Horticulture.....	J. A. Myers.....	3 65
	3633	Horticulture.....	Howell Bros.....	4 70
	3634	Horticulture.....	Southwestern Tel. and Tel. Co.....	2 15
	3635	Entomology.....	A. F. Conradi.....	85 76
	3636	Entomology.....	J. T. Hanway.....	1 00
	3637	Entomology.....	G. H. & Webb.....	2 25
	3638	Entomology.....	Schaffer Photo. Supply Co.....	4 90
	3639	Entomology.....	E. C. Harder & Co.....	1 45
	3640	Care of grounds.....	International Harvester Co.....	30 00
	3641	Care of grounds.....	J. A. Myers.....	12 98
	3642	Care of grounds.....	J. T. Hanway.....	14 55
	3643	Foul brood.....	Webb Bros.....	5 00
	3644	Foul brood.....	George Benson.....	2 00
	3645	Foul brood.....	E. Scholl.....	14 10
	3646	Drawing.....	J. Buté.....	5 00
	3647	Contingent.....	State Printing Co.....	218 27
	3648	Contingent.....	State Printing Co.....	74
	3649	Steam plant.....	G. S. Parker.....	6 75
	3650	Steam plant.....	J. T. Hanway.....	2 35
	3 51	Steam plant.....	F. W. Heltman & Co.....	20 09
	3652	Steam plant.....	Ryan & Hanson.....	56 80
	3653	Steam plant.....	National Ammonia Co.....	45 60
Apr. 30, 1905	3720	Board expenses.....	W. J. Clay.....	14 00
	3721	Board expenses.....	F. A. Reichardt.....	22 40
	3722	Board expenses.....	A. J. Brown.....	2 00
	3727	Textile.....	Cole Hardware Co.....	70
	3728	Textile.....	Howell Bros.....	25
	3729	Textile.....	G. H. & Webb.....	7 26
	3730	Textile.....	T. Haswell.....	8 25
	3731	Textile.....	J. A. Myers.....	3 60
	3732	Textile.....	Howard & Bullough.....	13 92
	3733	Textile.....	F. Webber & Co.....	1 03
	3734	Textile.....	Galveston News.....	1 50
	3735	Textile.....	American Supply Co.....	21 14
	3736	Drawing.....	Nelson Manufacturing Co.....	1 75
	3737	Care of grounds.....	J. R. Tabor.....	13 44
	3738	Salary.....	H. H. Harrington.....	175 00
	3739	Salary.....	R. H. Whitlock.....	125 00
	3740	Salary.....	Charles Puryear.....	125 00
	3741	Salary.....	M. Francis.....	90 00
	3742	Salary.....	F. E. Giesecke.....	120 00
	3743	Salary.....	J. C. Nagle.....	125 00



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Apr. 30, 1905	3744	Salary.....	C. W. Hutson.....	\$ 100 00
	3745	Salary.....	D. W. Spence.....	100 00
	3746	Salary.....	F. S. Johnson.....	120 84
	3747	Salary.....	E. J. Kyle.....	65 00
	3748	Salary.....	O. M. Ball.....	120 00
	3749	Salary.....	N. H. Brown.....	150 00
	3750	Salary.....	J. A. Craig.....	125 00
	3751	Salary.....	R. F. Smith.....	80 00
	3752	Salary.....	T. P. Junkin.....	80 00
	3753	Salary.....	F. R. Marshall.....	75 00
	3754	Salary.....	C. P. Fountain.....	80 00
	3755	Salary.....	W. G. Drummond.....	80 00
	3756	Salary.....	E. C. Green.....	60 00
	3757	Salary.....	C. S. Potts.....	58 33
	3758	Salary.....	G. S. Fraps.....	59 00
	3759	Salary.....	A. A. Haskell.....	70 00
	3760	Salary.....	W. C. Nelson.....	55 55
	3761	Salary.....	J. A. Lomax.....	70 00
	3762	Salary.....	A. F. Conradi.....	45 00
	3763	Salary.....	C. B. Campbell.....	80 00
	3764	Salary.....	J. G. Harrison.....	57 50
	3765	Salary.....	S. E. Andrews.....	50 00
	3766	Salary.....	J. B. Bagley.....	50 00
	3767	Salary.....	O. D. Hargis.....	60 00
	3768	Salary.....	A. Mitchell.....	60 00
	3769	Salary.....	A. C. Snyder.....	37 50
	3770	Salary.....	W. E. Bachman.....	77 77
	3771	Salary.....	J. S. Wier.....	120 00
	3772	Salary.....	G. C. Embry.....	60 00
	3773	Salary.....	F. T. Foley.....	30 00
	3774	Salary.....	R. L. Bennett.....	41 66
	3775	Salary.....	D. Meers.....	75 00
	3776	Salary.....	D. E. Earle.....	60 00
	3777	Salary.....	Geo. Grupe.....	100 00
	3778	Salary.....	J. W. Carson.....	45 00
	3779	Salary.....	P. Day.....	90 00
	378	Salary.....	B. Sbsa.....	150 00
	3781	Salary.....	J. E. Lear.....	60 00
	3782	Salary.....	R. P. Marsteyler.....	66 66
	3783	Salary.....	Nathan Powell.....	83 33
	3784	Salary.....	C. E. Bartholomew.....	66 66
	3785	Salary.....	Mrs. Ira Cain.....	40 00
	3786	Salary.....	A. Nunley.....	45 00
	3787	Salary.....	C. B. Campbell.....	33 33
	3837	Steam plant.....	J. J. Jones.....	54 60
	3866	Wood.....	J. H. Suber.....	136 80
May 4, 1905	3867	Entomology.....	C. E. Bartholomew.....	9 00
May 10, 1905	3868	Entomology.....	Houston Drug Co.....	6 30
	3869	Entomology.....	Whitall Tatum Co.....	1 16
	3870	Entomology.....	E. C. Harder & Co.....	4 05
	3871	Entomology.....	A. F. Conradi.....	24 04
	3872	Foul brood.....	Will Atchlen.....	56 85
	3873	Foul brood.....	E. Scholl.....	24 25
	3874	Foul brood.....	The Apiarist.....	2 50
	3875	Foul brood.....	D. C. Milam.....	6 60
	3876	Foul brood.....	N. H. Brown.....	42 53
	3877	Animal husbandry.....	G. S. Parker.....	20 31
	3878	Animal husbandry.....	Carter's Studio.....	16 00
	3879	Animal husbandry.....	Dorsey Printing Co.....	10 00
	3880	Animal husbandry.....	Dorsey Printing Co.....	18 62
	3881	Animal husbandry.....	E. O. Harder & Co.....	39 40
	3882	Animal husbandry.....	J. L. Green & Co.....	3 00
	3883	Steam plant.....	Ryan & Hanson.....	64 50
	3884	Mechanical engineering.....	A. A. Carson.....	2 00
	3885	Mechanical engineering.....	J. A. Myers.....	44 35
	3886	Mechanical engineering.....	F. W. Heltman & Co.....	10 37
	3887	Mechanical engineering.....	G. H. & Webb.....	5 50
	3888	Mechanical engineering.....	W. J. Coulter.....	6 75
	3889	Farm husbandry.....	T. Haswell.....	3 10
	3890	Contingent.....	Southwestern T. & T. Co.....	1 25
	3891	Contingent.....	C. A. Koehler.....	3 75
	3892	Contingent.....	Tobin's Book Store.....	41 75
	3893	Contingent.....	Tobin's Book Store.....	1 85
	3894	Contingent.....	Tobin's Book Store.....	9 70
	4042	Janitors.....	J. A. Capps et al.....	128 00
	4943	Laborers.....	J. Carroll et al.....	60 00
	4044	Care of grounds.....	A. Thompson.....	60 00

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
May 10, 1905	4045	Mechanical engineering...	Wells Fargo Express.....	\$ 35
	4046	Mechanical engineering...	W. Gorzycki.....	3 00
	4047	Board expenses.....	H. H. Harrington.....	5 50
	4048	Board expenses.....	W. J. Clay.....	5 60
	4049	Textile.....	H. & T. C. Railway.....	1 39
	4050	Textile.....	Wells Fargo Express.....	1 00
	4051	Textile.....	H. & T. C. Railway.....	2 22
	4052	Textile.....	N. F. Carson.....	30 00
	4053	Farm husbandry.....	W. C. Boyett.....	2 00
	4054	Farm husbandry.....	Anna Martin.....	1 45
	4055	Farm husbandry.....	H. & T. C. Railway.....	3 43
	4056	Farm husbandry.....	Wells Fargo Express.....	35
	4057	Farm husbandry.....	Alex. Turner.....	6 00
	4058	Farm husbandry.....	John Foster.....	1 25
	4059	Contingent.....	W. C. Boyett.....	130 00
	4060	Contingent.....	H. Schroeter et al.....	65 00
	4061	Contingent.....	H. H. Harrington.....	1 75
	4062	Contingent.....	Wells Fargo Express.....	35
	4063	Contingent.....	Wells Fargo Express.....	25
	4064	Contingent.....	Wells Fargo Express.....	80
	4065	Contingent.....	Wells Fargo Express.....	85
	4066	Contingent.....	Wells Fargo Express.....	25
	4067	Contingent.....	F. T. Foley.....	35
	4068	Contingent.....	W. C. Boyett.....	5 00
	4069	Steam plant.....	H. & T. C. Railway.....	5 54
	4070	Steam plant.....	H. & T. C. Railway.....	42
	4071	Steam plant.....	I. & G. N. Railway.....	25 04
	4072	Steam plant.....	S. F. Farley et al.....	219 00
	4073	Steam plant.....	I. & G. N. Railway.....	67 70
	4074	Steam plant.....	Wells Fargo Express.....	30
	4075	Drawing.....	Wells Fargo Express.....	60
	4076	Animal husbandry.....	H. & T. C. Railway.....	6 38
	4077	Animal husbandry.....	W. Andrews.....	22 50
May 16, 1905	4126	Mechanical engineering...	F. W. Heitman & Co.....	2 34
	4127	Mechanical engineering...	F. E. Reed Co.....	19 60
	4128	Mechanical engineering...	Jacobs Manufacturing Co.....	4 75
	4129	Mechanical engineering...	W. J. Coulter.....	7 25
	4130	Contingent.....	State Printing Co.....	1 24
	4131	Contingent.....	S. W. T. & T. Co.....	6 95
May 21, 1905	4136	Steam plant.....	E. J. Fountain & Co.....	1 65
	4137	Steam plant.....	Houston Drug Co.....	3 00
	4138	Steam plant.....	Ryan & Hanson.....	79 85
	4139	Steam plant.....	Babcock & Wilcox.....	15 19
	4140	Steam plant.....	G. S. Parker.....	11 70
	4141	Steam plant.....	W. C. Boyett.....	21 75
	4142	Steam plant.....	F. W. Heitman & Co.....	12 26
	4143	Steam plant.....	C. C. Calhoun.....	2 00
	4144	Steam plant.....	W. P. Oil Co.....	24 55
	4145	Civil engineering.....	State Printing Co.....	18 44
	4146	Textile.....	Howard & Bullough.....	3 50
	4147	P. & E. E.....	Electric Journal.....	1 00
	4148	P. & E. E.....	Electrician Publishing Co.....	2 00
	4149	Entomology.....	Tobin's Book Store.....	11 88
	4170	Bulletins.....	Von Boeckmann-Jones Co.....	54 45
	4171	Bulletins.....	Clarke & Courts.....	248 17
	4172	Bulletins.....	Von Boeckmann-Jones Co.....	177 10
	4173	Civil engineering.....	J. C. Nagle.....	9 03
	4174	Farm husbandry.....	Alex. Turner.....	4 00
	4175	Farm husbandry.....	Wells Fargo Express.....	5 00
	4176	Steam plant.....	Tom Hutson.....	6 75
	4177	Steam plant.....	Farm department.....	14 80
	4178	Steam plant.....	Farm department.....	14 80
	4179	Steam plant.....	I. & G. N. Railway.....	39
	4180	Contingent.....	Wells Fargo Express.....	25
	4181	Mechanical engineering...	H. & T. C. Railway.....	4 53
	4182	Entomology.....	A. R. Byrd.....	3 13
	4183	Animal husbandry.....	Mrs. A. Smoot.....	4 00
	4184	Care of grounds.....	Farm department.....	29 60
	4185	Care of grounds.....	Farm department.....	29 60
	4186	Textile.....	H. & T. C. Railway.....	1 39
	4187	Textile.....	Wells Fargo Express.....	60
	4250	P. and E engineering.....	Bryan Telephone Co.....	16 35
	4251	Care of grounds.....	J. A. Myers.....	12 12
May 30, 1905	4257	Salary.....	H. H. Harrington.....	175 00
	4258	Salary.....	R. H. Whitlock.....	125 00
	4259	Salary.....	Charles Puryear.....	125 00
	4260	Salary.....	M. Francis.....	90 00

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
May 30, 1905	4261	Salary .....	F. E. Giesecke .....	\$ 120 00
	4262	Salary .....	J. C. Nagle .....	125 00
	4263	Salary .....	O. W. Hutson .....	100 00
	4264	Salary .....	D. W. Spence .....	100 00
	4265	Salary .....	F. S. Johnston .....	120 84
	4266	Salary .....	E. J. Kyle .....	65 00
	4267	Salary .....	O. M. Ball .....	120 00
	4268	Salary .....	N. H. Brown .....	150 00
	4269	Salary .....	J. A. Craig .....	125 00
	4270	Salary .....	R. F. Smith .....	80 00
	4271	Salary .....	T. P. Junkin .....	80 00
	4272	Salary .....	F. R. Marshall .....	75 00
	4273	Salary .....	C. P. Fountain .....	80 00
	4274	Salary .....	W. G. Drummond .....	80 00
	4275	Salary .....	E. C. Green .....	60 00
	4276	Salary .....	O. S. Potts .....	58 33
	4277	Salary .....	G. S. Fraps .....	50 00
	4278	Salary .....	A. A. Haskell .....	70 00
	4279	Salary .....	W. C. Nelson .....	55 55
	4280	Salary .....	J. A. Lomax .....	70 00
	4281	Salary .....	A. F. Conradi .....	45 00
	4282	Salary .....	C. B. Campbell .....	80 00
	4283	Salary .....	J. G. Harrison .....	57 50
	4284	Salary .....	S. E. Andrews .....	50 00
	4285	Salary .....	J. B. Bagley .....	50 00
	4286	Salary .....	O. B. Hargis .....	60 00
	4287	Salary .....	A. Mitchell .....	60 00
	4288	Salary .....	A. C. Snyder .....	37 50
	4289	Salary .....	W. E. Bachman .....	77 77
	4290	Salary .....	J. S. Wier .....	120 00
	4291	Salary .....	G. C. Embry .....	60 00
	4292	Salary .....	F. T. Foley .....	30 00
	4293	Salary .....	R. L. Bennett .....	41 66
	4294	Salary .....	D. Meers .....	75 00
	4295	Salary .....	D. E. Earle .....	60 00
	4296	Salary .....	G. Grupe .....	100 00
	4297	Salary .....	J. W. Carson .....	45 00
	4298	Salary .....	P. Day .....	90 00
	4299	Salary .....	B. Sbis .....	150 00
	4300	Salary .....	J. E. Lear .....	60 00
	4301	Salary .....	R. P. Marsteller .....	66 66
	4302	Salary .....	N. Powell .....	83 33
	4303	Salary .....	C. E. Bartholomew .....	66 66
	4304	Salary .....	Mrs. Ira Cain .....	40 00
	4305	Salary .....	A. Nunley .....	45 00
June 4, 1905	4373	Steam Plant .....	S. F. Farley et al. ....	228 00
June 7, 1905	4108	Care of grounds .....	Farm department .....	29 60
	4109	Horticulture .....	Vaughan's Seed Store .....	3 63
	4410	Foul brood .....	A. F. Conradi .....	38 15
	4411	Foul brood .....	A. F. Conradi .....	3 00
	4412	Entomology .....	A. F. Conradi .....	28 48
	4413	Steam Plant .....	Farm department .....	14 80
	4414	Entomology .....	A. F. Conradi .....	14 30
	4415	Steam Plant .....	A. M. Lockett & Co .....	4 50
	4416	Steam Plant .....	Ryan & Hanson .....	125 47
	4428	Civil engineering .....	I. & G. N. Railway .....	52 94
June 9, 1905	4474	Laborers .....	J. Carroll et al. ....	60 00
	4475	Horticultural .....	E. J. Kyle .....	2 75
	4476	Entomology .....	M. Evans .....	2 80
	4477	Farm husbandry .....	W. C. Boyett .....	2 20
	4478	Contingent .....	Wells Fargo Express .....	75
	4479	Contingent .....	Wells Fargo Express .....	95
	4480	Contingent .....	Pacific Express .....	25
	4481	Contingent .....	Wells Fargo Express .....	1 20
	4482	Contingent .....	W. C. Boyett .....	6 00
	4483	Contingent .....	W. C. Boyett .....	4 00
	4484	Contingent .....	H. Schroeter et al. ....	56 00
	4485	Textile .....	I. & G. N. Railway .....	1 04
	4486	Textile .....	Alonzo Carter .....	2 90
	4487	Textile .....	I. & G. N. Railway .....	1 16
	4488	Textile .....	N. F. Carson .....	14 80
	4489	Care of grounds .....	A. Thompson .....	60 00
	4490	Steam plant .....	Annis Martin .....	1 50
	4491	Steam plant .....	I. & G. N. Railway .....	108 32
	4492	Mechanical engineering .....	I. & G. N. Railway .....	40
	4493	Mechanical engineering .....	H. & T. O. Railway .....	22
	4494	Farm husbandry .....	W. L. Atkins .....	55



## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
June 9, 1905	4495	Farm husbandry.....	H. & T. C. Railway.....	\$ 5 89
	4496	Drawing.....	Wells Fargo Express.....	1 30
June 11, 1905	4508	Farm husbandry.....	W. J. Andrews.....	12 50
June 26, 1905	4548	Civil engineering.....	J. A. Myers.....	8 65
	4563	Foul brood.....	A. F. Conradi.....	26 80
	4564	Foul brood.....	E. Scholl.....	12 00
	4565	Foul brood.....	E. B. Byrne.....	5 00
	4566	Foul brood.....	E. Scholl.....	14 90
	4567	Foul brood.....	Smith Drug Co.....	13 10
	4568	Foul brood.....	Udo Toepperwein.....	6 75
	4569	Foul brood.....	D. C. Milam.....	18 35
	4570	Foul brood.....	D. C. Milam.....	13 50
	4571	Foul brood.....	D. C. Milam.....	10 50
	4577	Entomology.....	Cole Hardware Co.....	90
	4578	Entomology.....	Express Publishing Co.....	1 50
	4579	Entomology.....	Ohio Naturalist.....	1 00
	4580	Entomology.....	J. T. Hanway.....	1 50
	4581	Entomology.....	A. F. Conradi.....	17 70
	4582	Steam plant.....	Ryan & Hanson.....	43 61
	4583	Steam plant.....	Cole Hardware Co.....	1 50
	4605	Foul brood.....	A. F. Conradi.....	22 75
	4606	Contingent.....	Tobin's Book Store.....	8 22
	4607	Care of grounds.....	J. A. Myers.....	23 85
	4608	Board expenses.....	W. J. Clay.....	20 10
June 30, 1905	4613	Entomology.....	N. H. Brown.....	20 00
	4614	Salary.....	H. H. Harrington.....	175 00
	4615	Salary.....	M. Francis.....	90 00
	4616	Salary.....	F. S. Johnston.....	120 84
	4617	Salary.....	E. J. Kyle.....	65 00
	4618	Salary.....	J. A. Craig.....	125 00
	4619	Salary.....	F. R. Marshall.....	75 00
	4620	Salary.....	E. C. Green.....	60 00
	4621	Salary.....	G. S. Fraps.....	50 00
	4622	Salary.....	A. F. Conradi.....	45 00
	4623	Salary.....	J. G. Harrison.....	57 50
	4624	Salary.....	A. C. Snyder.....	37 50
	4625	Salary.....	F. T. Foley.....	30 00
	4626	Salary.....	R. L. Bennett.....	41 66
	4627	Salary.....	D. Meers.....	75 00
	4628	Salary.....	George Grupe.....	100 00
	4629	Salary.....	J. W. Carson.....	45 00
	4630	Salary.....	P. Day.....	90 00
	4631	Salary.....	C. W. Bartholomew.....	66 66
	4632	Salary.....	Ira Cain.....	40 00
	4633	Salary.....	R. P. Marsteller.....	22 22
	4634	Salary.....	J. E. Lear.....	20 00
	4635	Salary.....	F. Powell.....	27 77
	4711	Farm husbandry.....	C. W. Boyce.....	75
	4712	Farm husbandry.....	Pacific Express.....	3 40
	4713	Farm husbandry.....	H. & T. C. Railway.....	3 83
	4714	Farm husbandry.....	A. Martin.....	4 50
	4715	Farm husbandry.....	W. L. Atkins.....	2 50
	4716	Farm husbandry.....	W. L. Atkins.....	15 00
	4717	Farm husbandry.....	Wells Fargo Express.....	60
	4718	Janitors.....	Ed. Davis et al.....	88 14
	4719	Drawing.....	Wells Fargo Express.....	30
	4720	Foul brood.....	E. Scholl.....	7 40
	4721	Entomology.....	W. L. Atkins.....	6 25
	4722	Entomology.....	E. Scholl.....	14 75
	4723	Entomology.....	Martin Evans.....	3 00
	4724	Textile.....	J. L. Murray.....	25
	4725	Horticulture.....	Ed Schott et al.....	57 10
	4726	Steam plant.....	Dan Ward et al.....	1 50
	4727	Steam plant.....	Henry Nixon.....	9 50
	4728	Steam plant.....	J. R. Young et al.....	83 40
	4729	Contingent.....	Wells Fargo Express Co.....	30
	4730	Contingent.....	Pacific Express Co.....	30
	4731	Contingent.....	W. C. Boyett.....	10 00
	4732	Civil engineering.....	W. J. Andrews.....	2 50
	4733	Civil engineering.....	R. J. Windrow.....	1 25
	4734	Board expenses.....	S. E. Andrews.....	10 00
July 7, 1905	4781	Entomology.....	W. L. Atkins.....	7 50
	4844	Contingent.....	Western Union Telegraph Co.....	2 95
	4845	Contingent.....	Western Union Telegraph Co.....	1 45
	4846	Contingent.....	State Printing Co.....	3 99
	4847	Farm husbandry.....	Aug. Schill.....	10 38
	4848	Farm husbandry.....	F. S. Johnston.....	8 25

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
July 7, 1905	4849	Farm husbandry.....	F. S. Johnston.....	\$ 4 50
	4850	Farm husbandry.....	F. S. Johnston.....	1 36
	4851	Farm husbandry.....	H. T. Dyers.....	1 00
	4852	Farm husbandry.....	C. W. Boyce.....	50 00
	4853	Farm husbandry.....	F. F. Fountaine.....	3 00
	4854	Care of grounds.....	Aug. Thompson.....	60 00
	4855	Care of grounds.....	J. A. Myers.....	8 60
	4856	Care of grounds.....	Farm Department.....	29 60
	4857	Steam plant.....	I. N. G. N. Ry. Co.....	24 48
	4858	Steam plant.....	Farm department.....	4 95
	4859	Foul brood.....	Ernest Scholl.....	31 00
	4860	Drawing.....	G. H. & Webb.....	7 95
	4861	Drawing.....	J. A. Myers.....	20
	4862	Entomology.....	Henry Nixon.....	4 00
	4863	Janitors.....	Joe Wiley et al.....	88 00
	4864	Laborers.....	J. Carroll et al.....	60 00
July 17, 1905	4890	Foul brood.....	A. F. Conradi.....	19 08
	4891	Foul brood.....	A. F. Conradi.....	3 55
	4892	Foul brood.....	A. F. Conradi.....	4 00
	4893	Foul brood.....	A. F. Conradi.....	21 20
	4894	Foul brood.....	Cole Hardware Co.....	1 60
	4895	Foul brood.....	M. H. Johnson Co.....	9 60
	4896	Foul brood.....	M. H. Laws.....	13 33
	4897	Foul brood.....	Webb Bros.....	6 09
	4898	Entomology.....	A. F. Conradi.....	8 00
	4899	Entomology.....	Texas Seed and Floral Co.....	1 35
	4929	Steam plant.....	G. S. Parker.....	9 55
July 19, 1905	4930	Farm husbandry.....	Ross Bookman.....	1 00
	4931	Farm husbandry.....	R. T. Kendrick.....	14 00
	4932	Farm husbandry.....	C. W. Boyce.....	22 00
	4933	Contingent.....	Wells Fargo Express Co.....	1 00
	4934	Contingent.....	H. Schroeter et al.....	17 95
	4935	Contingent.....	H. Schroeter et al.....	50 00
	4935	Janitors.....	J. A. Capps et al.....	129 62
	4938	P. and E. E.....	N. H. Brown.....	18 38
	4983	Farm husbandry.....	G. H. & Webb.....	2 00
	4984	Farm husbandry.....	F. W. Heitmann.....	1 39
July 24, 1905	4985	Farm husbandry.....	C. Weichsel.....	14 75
	4986	Farm husbandry.....	R. R. Knowles.....	3 92
	4987	Farm husbandry.....	Garth Howell & Webb.....	1 75
	4988	Farm husbandry.....	J. A. Myers.....	4 05
	4989	Farm husbandry.....	J. A. Myers.....	13 65
	4990	Farm husbandry.....	J. A. Myers.....	7 35
	4991	Bulletins.....	W. C. Boyett.....	1 01
	5008	Wood.....	J. H. Suber.....	140 60
	5018	Salary.....	H. H. Harrington.....	175 00
	5019	Salary.....	M. Francis.....	90 00
	5020	Salary.....	F. S. Johnston.....	120 84
July 30, 1905	5021	Salary.....	E. J. Kyle.....	65 00
	5022	Salary.....	F. R. Marshall.....	75 00
	5023	Salary.....	E. C. Green.....	60 00
	5024	Salary.....	G. S. Fraps.....	50 00
	5025	Salary.....	A. F. Conradi.....	45 00
	5026	Salary.....	J. G. Harrison.....	57 50
	5027	Salary.....	A. C. Snyder.....	37 50
	5028	Salary.....	F. T. Foley.....	30 00
	5029	Salary.....	R. L. Bennett.....	41 66
	5030	Salary.....	T. Meers.....	75 00
	5031	Salary.....	G. Grupe.....	100 00
	5032	Salary.....	J. W. Carson.....	45 00
	5033	Salary.....	C. E. Bartholomew.....	66 66
	5105	Contingent.....	H. H. Harrington.....	2 25
	5106	Farm husbandry.....	H. & T. C. Ry. Co.....	3 99
	5107	Farm husbandry.....	H. & T. C. Ry. Co.....	2 48
	5108	Farm husbandry.....	H. & T. C. Ry. Co.....	42
Aug. 4, 1905	5109	Farm husbandry.....	H. & T. C. Ry. Co.....	14 16
	5111	Care of grounds.....	Aug. Thompson.....	50 00
Aug. 20, 1905	5273	Farm husbandry.....	Univ. of Nebraska.....	20 00
Aug. 30, 1905	5308	Salary.....	H. H. Harrington.....	175 00
	5309	Salary.....	M. Francis.....	90 00
	5310	Salary.....	F. S. Johnston.....	120 84
	5311	Salary.....	E. J. Kyle.....	65 00
	5312	Salary.....	F. S. Marshall.....	75 00
	5313	Salary.....	E. C. Green.....	60 00
	5314	Salary.....	G. S. Fraps.....	50 00
	5315	Salary.....	A. F. Conradi.....	45 00
	5316	Salary.....	J. G. Harrison.....	57 50

## Maintenance and Support Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Aug. 30, 1905	5317	Salary .....	A. O. Snyder .....	\$ 37 50
	5318	Salary .....	F. T. Foley .....	30 00
	5319	Salary .....	R. L. Bennett .....	41 66
	5320	Salary .....	T. Meers .....	75 00
	5321	Salary .....	Geo. Grupe .....	100 00
	5322	Salary .....	C. E. Barthomew .....	66 66
	5435	Board expenses .....	H. H. Harrington .....	90 05
Total .....				\$ 122,239 80

Appropriation 1904-1905..... \$ 60,000 00  
 Appropriation 1905-1906..... 62,085 00  
 Balance from last report..... 161 10  
 To balance..... \$ 6 30

\$ 122,246 10      \$ 122,246 10

## Substation Beeville Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 22, 1904	467	Salary .....	J. K. Robertson .....	\$ 83 33
	468	Salary .....	E. C. Green .....	20 84
Nov. 28, 1904	598	Salary and labor .....	J. K. Robertson .....	139 53
	599	Salary and labor .....	J. K. Robertson .....	36 80
	600	Equipment and repairs .....	R. Law Lumber Co. ....	7 05
	601	Equipment and repairs .....	Burrows Hardware Co. ....	50 10
	604	Equipment and repairs .....	Burrows Hardware Co. ....	225 00
Dec. 28, 1904	961	Expense .....	J. K. Robertson .....	95 55
	962	Salary and laborers .....	J. K. Robertson .....	155 23
	963	Salary and laborers .....	J. K. Robertson .....	156 33
	964	Expense .....	E. C. Green .....	20 84
Jan. 6, 1905	980	Expense .....	E. C. Green .....	20 84
Jan. 10, 1905	1053	Expense .....	E. C. Green .....	6 05
Jan. 17, 1905	1215	Expense .....	J. K. Robertson .....	10 95
	1216	Expense .....	J. K. Robertson .....	20 65
	1217	Expense .....	J. K. Robertson .....	12 55
	1218	Expense .....	J. K. Robertson .....	10 73
	1219	Expense .....	Kohr & Heldenfels. ....	59 69
	1220	Expense .....	Burrows Hardware Co. ....	9 65
Jan. 31, 1905	1324	Expense .....	E. C. Green .....	20 84
Feb. 28, 1905	1709	Salary and labor .....	J. K. Robertson .....	155 93
	1710	Expense .....	J. K. Robertson .....	30 90
	1711	Expense .....	J. K. Robertson .....	157 48
	1712	Equipment, repairs .....	Burrows Hardware Co. ....	99 43
	1713	Equipment, repairs .....	Burrows Hardware Co. ....	71 02
	1714	Equipment, repairs .....	R. Law Lumber Co. ....	30 46
	1781	Expense .....	E. C. Green .....	20 84
Mar. 31, 1905	2169	Expense .....	E. C. Green .....	20 84
	2176	Expense .....	J. K. Robertson .....	19 45
	2177	Salary .....	J. K. Robertson .....	151 08
	2178	Salary, labor, etc. ....	J. K. Robertson .....	158 88
	2179	Salary .....	J. K. Robertson .....	57 05
	2180	Seed, etc .....	Texas Seed and Floral Co. ....	8 45
	2181	Seed, etc .....	Glenn St. Mary's Nursery ..	22 25
	2182	Seed, etc .....	T. V. Munson & Son .....	5 30
	2183	Seed, etc .....	Ross Bros. ....	3 20
Apr. 30, 1905	2578	Expense .....	E. C. Green .....	20 84
May 11, 1905	2714	Salary, labor, etc. ....	J. K. Robertson .....	160 83
	2715	Salary, labor, etc. ....	J. K. Robertson .....	17 75
June 3, 1905	2968	Expense .....	E. C. Green .....	20 84
June 30, 1905	3233	Expense .....	E. C. Green .....	20 84
July 10, 1905	3322	Salary, labor, etc. ....	J. K. Robertson .....	157 43
	3323	Salary, labor, etc. ....	J. K. Robertson .....	25 76
	3324	Expense .....	J. K. Robertson .....	154 48



## Substation Beeville Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
July 10, 1905	3325	Expense .....	Burrows Hardware Co.....	\$ 175 00
Aug. 15, 1905	3591	Expense .....	E. C. Green.....	20 84
Aug. 17, 1905	3659	Expense .....	J. K. Robertson.....	156 68
	3660	Expense .....	J. K. Robertson .....	5 50
Aug. 31, 1905	3798	Expense .....	E. C. Green.....	20 84
	3835	Salary, labor, etc.....	J. K. Robertson.....	138 33
	3836	Salary, labor, etc.....	J. K. Robertson.....	10 25
	3837	Equipment and repairs.....	Burrows Hardware Co.....	143 45
	3838	Equipment and repairs.....	R. Law Lumber Co.....	24 92
Oct. 17, 1905	370	Salary, labor, etc .....	J. K. Robertson .....	155 00
	371	Expense .....	J. K. Robertson .....	23 55
Nov. 1, 1905	784	Expense .....	J. K. Robertson.....	178 50
	785	Expense .....	J. K. Robertson.....	10 64
Nov. 14, 1905	908	Expense .....	Burrows Hardware Co.....	77 18
Dec. 22, 1905	1307	Salary, labor, etc.....	J. K. Robertson.....	177 60
	1318	Salary, labor, etc.....	J. K. Robertson.....	12 60
Jan 17, 1906	1961	Salary, labor, etc.....	J. K. Robertson.....	175 40
	1962	Salary, labor, etc.....	J. K. Robertson.....	11 95
	1963	Equipment, etc.....	Burrows Hardware Co.....	38 75
	1964	Equipment, etc.....	Law Lumber Co.....	34 17
Feb. 2, 19 6	2379	Salary, labor, etc.....	J. K. Robertson.....	149 10
	2380	Salary, labor, etc.....	J. K. Robertson.....	10 91
	2381	Equipment.....	Burrows Hardware Co .....	6 80
	2382	Expense .....	Kern Bell.....	13 80
Feb. 15, 1906	2607	Equipment, repairs.....	R. Law Lumber Co. ....	7 15
	2668	Expense .....	E. C. Green.....	27 75
Mar. 10, 1906	2854	Expense .....	Felipe Narango.....	18 00
	2855	Expense .....	A. Lange.....	30 00
	2972	Expense .....	S. A. Waschka.....	83 30
Mar. 15, 1906	3051	Expense .....	R. W. Sparks.....	100 00
Mar. 30, 19 6	3189	Expense .....	O. H. Carmichael.....	8 50
	3359	Expense .....	J. A. Craig.....	31 10
	3360	Expense .....	E. C. Green.....	7 30
Mar. 17, 1906	3375	Salary and labor.....	S. A. Waschka.....	83 30
	3376	Salary and labor.....	S. A. Waschka.....	26 00
	3377	Expense .....	D. Bankhead.....	17 25
	3378	Expense .....	A. Langly.....	30 00
	3379	Expense .....	F. Narango.....	18 35
	3480	Plants.....	Alvin Fruit and Nursery Co.....	15 60
	3553	Expense .....	A. K. Bell.....	30 00
	3554	Expense .....	H. H. Harrington.....	7 50
May 10, 1906	3906	Salary and labor.....	S. A. Waschka.....	146 36
	3907	Salary and labor.....	A. Langley et al.....	52 00
June 7, 1906	4396	Salary and labor.....	A. Langley et al.....	52 00
July 7, 1906	4828	Expense .....	F. Narango.....	25 00
	4829	Expense .....	Burrows Hardware Co.....	28 25
	4830	Expense .....	C. E. Cochran & Son.....	47 10
July 24, 1906	5003	Expense .....	A. F. Lutts.....	9 30
Aug. 11, 1906	5171	Expense .....	F. Narango.....	25 00
	5172	Salary and labor.....	S. A. Waschka.....	144 88
	5173	Salary and labor.....	S. A. Waschka et al.....	216 08
	5280	Expense .....	Burrows Hardware Co.....	89 07
	5281	Expense .....	A. W. Shannon.....	24 65
	5282	Expense .....	A. F. Rees.....	14 00
	5283	Equipment.....	R. Law Lumber Co.....	50 30
	5284	Equipment.....	C. E. Cochran & Son.....	16 55
Aug. 31, 1906	5303	Labor.....	S. A. Waschka.....	44 00
	5304	Expense .....	E. C. Green.....	13 35
Total .....				\$ 6,050 56

Appropriation 1903-1904 .....	\$ 3,000 00
Appropriation 1904-1905.....	3,000 00
Balance appropriation 1902-1903.....	48 07
Overcheck.....	2 49

\$ 6,050 56

## Student Labor Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Feb. 28, 1905	1615	Band.....	B. Marburger et al.....	\$ 62 00
	1616	Band.....	B. Marburger et al.....	62 00
	1617	Band.....	B. Marburger et al.....	62 00
	1618	Power plant.....	J. F. Armstrong et al.....	176 25
	1619	Power plant.....	L. W. Adams et al.....	155 00
	1620	Power plant.....	L. W. Adams et al.....	122 25
	1621	Botanical.....	A. A. Wright.....	13 32
	1622	Chemical.....	J. B. Rather et al.....	19 85
	1623	Chemical.....	J. B. Rather et al.....	21 20
	1624	Chemical.....	J. B. Rather et al.....	11 05
	1625	Farm.....	G. W. Reese et al.....	65 99
	1626	Farm.....	S. J. Treadaway et al.....	21 50
	1627	Farm.....	C. W. Boyce.....	3 37
	1628	Farm.....	C. W. Boyce et al.....	46 20
	1629	Farm.....	G. W. Reese et al.....	24 13
	1630	Civil engineering.....	B. L. Durst.....	18 10
	1631	Drawing.....	H. Schroeter et al.....	38 50
	1632	Natatorium.....	J. H. Piere.....	37 50
	1633	Library.....	H. Baines.....	22 50
	1634	Book store.....	P. Welhausen.....	22 50
	1635	Contingent.....	J. F. Armstrong et al.....	14 50
	1636	Contingent.....	B. G. Hamlett.....	50
	1637	Guarding.....	R. B. Boetcher et al.....	120 00
	1638	Guarding.....	W. A. Price.....	37 50
	1639	Guarding.....	S. Garth.....	45 00
	1640	Guarding.....	L. Z. Gugenheim.....	10 00
	1641	Entomology.....	A. T. Potts.....	93
	1642	Entomology.....	A. Schurmann.....	2 31
	1643	Entomology.....	L. McLennan.....	4 40
	1644	Entomology.....	E. Scholl.....	45 00
	1645	English.....	B. Puryear.....	11 65
	1646	Civil Engineering.....	D. E. Pendleton.....	30 00
	1647	Animal husbandry.....	O. R. Liverman.....	2 75
	1648	Animal husbandry.....	C. M. Evans et al.....	8 75
	1649	Animal husbandry.....	B. G. Hamlett.....	1 75
	1650	Animal husbandry.....	H. P. Burkhalter.....	18 73
	1651	Animal husbandry.....	D. Rogers et al.....	25 30
	1652	Animal husbandry.....	Joe Hicks.....	1 30
	1653	Animal husbandry.....	R. R. Pendleton.....	11 50
	1654	Animal husbandry.....	R. R. Pendleton.....	2 50
	1655	Campus.....	Casey et al.....	19 45
	1656	Campus.....	L. Gugenheim.....	55 12
	1657	Animal husbandry.....	W. R. Holzman et al.....	9 05
	1658	Horticulture.....	L. L. Ballard.....	3 00
	1659	Farm husbandry.....	L. L. Ballard.....	2 25
	1660	Animal husbandry.....	L. L. Ballard.....	56 00
	1661	Horticultural.....	J. C. Berryman et al.....	26 75
	1662	P. and E. E.....	J. W. Ramsay et al.....	61 62
	1663	Textile.....	J. Hassel.....	10 00
	1664	Textile.....	J. W. Ramsay.....	16 00
	1665	Textile.....	F. Lichte et al.....	41 30
	1666	Textile.....	F. Lichte et al.....	26 32
Apr. 24, 1905	2436	Civil engineering.....	B. L. Durst et al.....	16 75
	2437	Civil engineering.....	D. Pendleton et al.....	14 25
	2438	English.....	B. Puryear et al.....	15 50
	2439	Military.....	J. Hassel.....	2 00
	2440	Drawing.....	H. Schroeter et al.....	25 40
	2441	Entomology.....	E. Scholl.....	45 00
	2442	Entomology.....	Jake Hill.....	85
	2443	Entomology.....	A. B. Edsall.....	1 87
	2444	Farm husbandry.....	C. W. Boyce et al.....	15 00
	2445	Farm husbandry.....	B. O. Bailey.....	6 55
	2446	Farm husbandry.....	A. F. Wilson.....	14 25
	2447	Animal husbandry.....	J. A. Lee et al.....	14 60
	2448	Animal husbandry.....	W. Waddington.....	1 10
	2449	Animal husbandry.....	W. Waddington.....	3 55
	2450	Steam plant.....	Adams et al.....	160 50
	2451	Steam plant.....	Adams et al.....	150 30
	2452	Steam plant.....	Adams et al.....	167 80
	2453	Chemical.....	A. Schurmann et al.....	60 95
	2454	P. and E. E.....	J. W. Ramsay et al.....	37 37
	2455	P. and E. E.....	J. W. Ramsay et al.....	11 88
	2456	Textile.....	L. Gugenheim et al.....	19 65
	2457	Textile.....	T. A. Adams et al.....	31 50
	2458	Horticulture.....	J. R. Lauderdale.....	47 06
	2459	Horticulture.....	S. A. Minear et al.....	45 10
	2460	Horticulture.....	R. M. Burton.....	5 00

## Student Labor Account--continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Apr. 24, 1905	2461	Botanical.....	A. A. Wright.....	\$ 13 32
	2462	Campus.....	W. L. Heller et al.....	22 50
	2463	Farm.....	C. M. Evans et al.....	40 62
	2464	Farm.....	S. J. Treadaway et al.....	38 13
	2465	Farm.....	G. W. Reese.....	7 62
	2466	Band.....	B. Marburger et al.....	62 00
	2467	Band.....	B. Marburger et al.....	62 00
	2468	Band.....	B. Marburger et al.....	62 00
	2469	Contingent.....	C. B. Sammons et al.....	120 00
	2470	Book store.....	P. Welhausen.....	22 50
	2471	Library.....	H. Baines.....	22 50
	2472	Contingent.....	W. A. Price.....	37 50
	2473	Natatorium.....	J. A. Pierie.....	37 50
	2474	Contingent.....	S. Garth.....	45 00
June 3, 1905	2478	Band.....	B. Marburger et al.....	62 00
	2479	Band.....	B. Marburger et al.....	67 00
	2480	Band.....	B. Marburger et al.....	36 00
	2481	Steam plant.....	Adams et al.....	114 40
June 19, 1905	2490	Textile.....	J. A. Hassell.....	7 50
	2491	Campus.....	O. L. Ellis et al.....	42 15
	2492	Campus.....	R. Pendleton et al.....	34 56
	2493	Guarding.....	T. B. Sammons et al.....	93 32
	2494	Animal husbandry.....	J. A. Lee et al.....	19 15
	2495	Steam plant.....	Blackwood et al.....	132 05
	2496	Steam plant.....	Beesley et al.....	50 15
	2497	Entomology.....	E. Scholl.....	27 00
	2498	Entomology.....	E. Scholl.....	15 00
	2499	Entomology.....	A. B. Edsall.....	1 20
	3000	Entomology.....	G. A. Blackaller.....	1 60
	3001	Entomology.....	G. A. Blackaller.....	2 06
	3002	Drawing.....	S. W. Tuttle et al.....	4 25
	3003	Drawing.....	H. Schroeter et al.....	7 80
	3004	Drawing.....	H. Schroeter et al.....	17 90
	3005	Botanical.....	A. A. Wright.....	4 45
	3006	Botanical.....	A. A. Wright.....	4 45
	3007	P. and E. E.....	J. W. Ramsay et al.....	43 62
	3008	P. and E. E.....	L. Gugenheim et al.....	7 75
	3009	P. and E. E.....	G. E. Skaggs et al.....	20 63
	3010	Horticulture.....	J. R. Lauderdale et al.....	32 05
	3011	Horticulture.....	H. P. Burkhalter et al.....	29 20
	3012	Horticulture.....	H. P. Burkhalter et al.....	10 00
	3013	Chemical.....	J. B. Rather et al.....	13 65
	3014	Chemical.....	J. B. Rather et al.....	15 75
	3015	Civil engineering.....	D. E. Pendleton.....	10 00
	3016	Civil engineering.....	R. L. Burney et al.....	20 25
	3017	Farm husbandry.....	C. W. Boyce et al.....	39 95
	3018	Farm husbandry.....	A. C. Wheeler et al.....	9 70
	3019	Farm husbandry.....	A. F. Wilson.....	1 85
	3020	Farm husbandry.....	O. L. Forsgard.....	4 50
	3021	Farm husbandry.....	L. McLennan et al.....	33 85
	3022	Book store.....	P. Welhousan.....	7 50
	3023	Book store.....	P. Welhousan.....	7 50
	3024	Book store.....	P. Welhousan.....	2 83
	3025	English.....	M. C. Hanson.....	5 00
	3026	English.....	M. C. Hanson.....	2 50
	3027	English.....	M. C. Hanson.....	5 00
	3028	Library.....	H. Baines.....	7 50
	3029	Library.....	H. Baines.....	7 50
	3030	Library.....	H. Baines.....	2 83
	3031	Natatorium.....	J. H. Pierie.....	12 50
	3032	Natatorium.....	J. H. Pierie.....	12 50
	3033	Natatorium.....	J. H. Pierie.....	4 17
	3034	Contingent.....	L. McLennan.....	2 00
	3035	Contingent.....	Sidney Tuttle.....	1 00
	3036	Contingent.....	Sidney Tuttle.....	3 25
	3037	Contingent.....	Sidney Tuttle.....	2 00
	3038	Contingent.....	S. Garth.....	15 00
	3039	Contingent.....	S. Garth.....	15 00
	3040	Contingent.....	S. Garth.....	5 00
	3041	Contingent.....	W. A. Price.....	12 50
	3042	Contingent.....	W. A. Price.....	12 50
	3043	Contingent.....	W. A. Price.....	4 17
	3044	Contingent.....	E. B. Sandelands.....	10 62
	3045	Contingent.....	H. B. Farmer.....	15 00
	3046	Contingent.....	C. G. Brown.....	2 10
July 10, 1905	3502	Entomology.....	L. L. Ballard.....	2 50
	3503	Contingent.....	S. Garth.....	17 00



## Student Labor Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
July 10, 1905	3504	Contingent.....	B. O. Bailey.....	\$ 5 00
	3505	Contingent.....	Guy Haltom.....	7 00
	3506	Farm husbandry.....	C. G. Brown.....	10 50
	3507	Civil engineering.....	S. F. Farley et al.....	30 00
	3508	Civil engineering.....	S. F. Farley et al.....	15 80
	3509	Horticultural.....	S. A. Minear et al.....	28 35
Aug. 31, 1905	3857	Steam plant.....	D. B. Neatherwood.....	65 70
	3858	Library.....	S. Garth.....	10 00
	3859	Contingent.....	S. Garth.....	62 00
	3860	Civil engineering.....	S. Garth.....	3 50
	3861	Farm.....	W. W. Washburn.....	32 62
	3912	Steam plant.....	D. B. Neatherwood.....	36 00
	3913	Steam plant.....	S. F. Farley et al.....	23 30
	3914	Farm husbandry.....	C. W. Boyce.....	36 00
	3933	Steam plant.....	Adams et al.....	8 00
Nov. 30, 1905	1202	Phys. and elec. engr.....	J. W. Ramsay.....	21 07
	1203	Entomology.....	E. Scholl.....	10 00
	1204	Subsistence.....	Trenckmann et al.....	180 00
	1205	Subsistence.....	Bean et al.....	48 20
	1206	Steam plant.....	J. Ashton et al.....	175 20
	1207	Civil engineering.....	B. Kawalski.....	12 00
	1208	Farm.....	F. S. Buchanan.....	8 25
	1209	Library.....	A. W. Currie.....	7 50
	1210	Bookstore.....	G. A. Hoyo.....	10 00
	1211	Chemistry.....	J. B. Rather.....	10 00
	1212	Farm husbandry.....	E. Carlisle et al.....	5 13
	1213	Band.....	R. E. Schiller.....	56 00
	1214	Horticultural.....	R. Pendleton.....	1 40
	1215	Natorium.....	R. Kendrick.....	10 00
	1216	Contingent.....	J. A. Adams.....	18 90
	1217	Contingent.....	J. W. Ramsey.....	15 80
	1218	Contingent.....	T. J. Beesley.....	9 25
	1210	Animal husbandry.....	J. S. Neibert.....	31 0
Jan. 8, 1906	1615	Botanical.....	A. B. Edsall.....	5 00
	1616	Band.....	Schiller et al.....	59 00
	1617	Band.....	Schiller et al.....	44 25
	1618	Animal husbandry.....	H. P. Burkhalter et al.....	54 10
	1619	Animal husbandry.....	J. J. Caldwell.....	2 00
	1620	Drawing.....	D. S. Mair et al.....	8 95
	1621	Civil engineering.....	B. Bean et al.....	18 75
	1622	Civil engineering.....	P. E. Cunningham et al.....	14 00
	1623	Entomology.....	E. Scholl.....	16 50
	1624	Horticulture.....	A. R. Byrd et al.....	2 55
	1625	Contingent.....	G. E. Scaggs et al.....	3 00
	1626	Contingent.....	G. A. Hoyo et al.....	3 00
	1627	Contingent.....	R. W. Shanklin.....	1 00
	1628	Contingent.....	W. A. Gilbert.....	2 50
	1629	Contingent.....	G. A. Hoyo.....	50
	1630	Chemistry.....	J. B. Rather.....	1 00
	1631	Chemistry.....	J. B. Rather.....	5 00
	1632	Chemistry.....	J. H. Pirie et al.....	3 75
	1633	Natorium.....	R. T. Kendrick.....	10 00
	1634	Phys. and elec. engr.....	J. W. Ramsey et al.....	13 12
	1635	Phys. and elec. engr.....	J. W. Ramsey et al.....	16 88
	1636	Subsistence.....	Bailey et al.....	180 00
	1637	Subsistence.....	B. Bean et al.....	132 00
	1638	Farm.....	A. T. Cole et al.....	33 93
	1639	Farm.....	A. Underwood.....	1 87
	1640	Bookstore.....	G. A. Hoyo.....	7 50
	1641	Bookstore.....	G. A. Hoyo.....	7 50
	1642	Natorium.....	R. T. Kendrick.....	10 00
	1643	Campus.....	W. L. Heller.....	5 50
	1644	Library.....	A. W. Currie.....	7 50
	1645	Textile.....	F. D. Casey et al.....	2 13
	1646	Steam plant.....	Anderson et al.....	171 37
	1647	Steam plant.....	Allen et al.....	104 80
Jan. 20, 1906	2084	Library.....	A. W. Currie.....	7 50
	2085	Chemical.....	K. Lee.....	75
Feb. 2, 1906	2346	Farm husbandry.....	J. R. Johnston.....	19 73
Feb. 15, 1906	2561	Band.....	R. E. Schiller et al.....	52 00
	2562	Campus.....	A. L. Patterson.....	11 03
	2563	Botanical.....	A. B. Edsall.....	5 00
	2564	Chemistry.....	J. B. Rather.....	4 50
	2565	Civil engineering.....	R. E. Cunningham.....	13 20
	2566	Entomology.....	E. Scholl.....	15 00
	2567	Entomology.....	H. Hodges.....	2 45
	2568	Farm.....	G. C. Brown.....	6 12

## Student Labor Account-continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Feb. 15, 1906	2569	Farm husbandry.....	E. Carlyle et al.....	\$ 22 00
	2570	Farm husbandry.....	J. E. Heutig.....	17 35
	2571	Horticultural.....	F. Hensel.....	9 95
	2572	Horticultural.....	S. L. Mantz.....	5 20
	2573	Mess Hall.....	Bailey et al.....	180 00
	2574	Mess Hall.....	W. L. Heller et al.....	4 65
	2575	Phys. and elec. engr.....	J. W. Ramsay et al.....	13 50
	2576	Contingent.....	H. Baines.....	37 50
	2577	Contingent.....	G. A. Hoyo.....	7 50
	2578	Contingent.....	G. A. Hoyo.....	7 50
	2579	Natatorium.....	R. T. Kendrick.....	10 00
	2580	Library.....	A. W. Currie.....	7 50
Mar. 15, 1906	2581	Steam plant.....	Allen et al.....	217 35
	3084	Horticultural.....	S. Lomantz et al.....	10 05
	3085	Farm husbandry.....	J. E. Hoettig et al.....	39 85
	3086	Library.....	A. W. Currie.....	7 50
	3087	Subsistence.....	Bailey et al.....	180 00
	3088	Chemical.....	J. B. Rather.....	4 00
	3089	Natatorium.....	R. T. Kendrick.....	10 00
	3090	Contingent.....	G. A. Hoyo.....	7 50
	3091	Bookstore.....	G. A. Hoyo.....	7 50
	3092	Textile.....	G. C. Brown et al.....	6 75
	3093	Campus.....	A. L. Patterson.....	2 90
	3094	Entomology.....	H. Hodges.....	1 12
	3095	Animal husbandry.....	T. M. Reddel et al.....	12 70
	3096	Civil engineering.....	P. E. Cunningham.....	11 15
	3097	Band.....	A. & M. College Band.....	49 00
	3098	Drawing.....	G. S. Young.....	9 50
	3099	Phys. and elec. engr.....	J. W. Ramsay et al.....	28 58
Mar. 30, 1906	3100	Steam plant.....	Anderson et al.....	213 85
May 10, 1906	3377	Phys. and elec. engr.....	C. E. Reordan.....	12 75
	4084	Band.....	Barnes et al.....	50 00
	4085	Band.....	Schiller et al.....	51 00
	4086	Bookstore.....	G. A. Hoyo.....	7 50
	4087	Bookstore.....	G. A. Hoyo.....	7 50
	4088	Natatorium.....	R. T. Kendrick.....	10 00
	4089	Natatorium.....	R. T. Kendrick.....	10 00
	4090	Chemical.....	J. B. Rather et al.....	10 00
	4091	Library.....	A. W. Currie.....	7 50
	4092	Library.....	A. W. Currie.....	7 50
	4093	Dairy.....	H. W. Harrison et al.....	6 10
	4094	Phys. and elec. engr.....	J. W. Ramsay et al.....	16 37
	4095	Subsistence.....	Bailey et al.....	184 50
	4096	Subsistence.....	Ellis et al.....	165 00
	4097	Horticulture.....	R. F. Miller.....	1 05
	4098	Horticulture.....	L. H. Krauskoff et al.....	5 05
	4099	Civil engineering.....	B. Bean et al.....	11 50
	4100	Civil engineering.....	P. E. Cunningham et al.....	12 85
June 30, 1906	4101	Steam plant.....	Adams et al.....	157 70
	4735	Steam plant.....	Adams et al.....	191 25
	4736	Steam plant.....	Allen et al.....	154 45
	4737	Steam plant.....	Brinkmann et al.....	72 90
	4738	Steam plant.....	D. B. Neatherwood.....	5 75
	4739	Treasurer's office.....	G. A. Hoyo.....	8 50
	4740	Treasurer's office.....	G. A. Hoyo.....	7 50
	4741	Natatorium.....	R. T. Kendrick.....	10 00
	4742	Natatorium.....	R. T. Kendrick.....	5 00
	4743	Contingent.....	H. Baines.....	62 50
	4744	Contingent.....	G. A. Hoyo.....	7 50
	4745	Contingent.....	A. J. Rife.....	75
	4746	Contingent.....	A. L. Cornell.....	2 50
	4747	Library.....	A. W. Currie.....	7 50
	4748	Library.....	A. W. Currie.....	2 50
	4749	Phys. and elec. engr.....	J. W. Ramsay et al.....	15 55
	4750	Phys. and elec. engr.....	W. E. Bower.....	2 00
	4751	Phys. and elec. engr.....	J. W. Ramsay et al.....	16 00
	4752	Phys. and elec. engr.....	L. Gugenheim et al.....	12 25
	4753	Phys. and elec. engr.....	J. W. Ramsay.....	5 75
	4754	Phys. and elec. engr.....	R. M. Winston et al.....	5 33
	4755	Entomology.....	R. H. Hodges.....	1 50
	4756	Textile.....	T. A. Adams et al.....	18 43
	4757	Textile.....	T. A. Adams et al.....	28 12
	4758	Textile.....	H. F. Lee et al.....	1 26
	4759	Bookstore.....	G. A. Hoyo.....	7 50
	4760	Bookstore.....	G. A. Hoyo.....	2 50
	4761	Drawing.....	J. W. Wilson et al.....	13 50
	4762	Drawing.....	J. R. John et al.....	7 50

## Student Labor Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
June 30, 1906	4763	Farm husbandry .....	R. R. Jackson.....	\$ 1 95
	4764	Farm husbandry.....	J. E. Huettig et al.....	41 72
	4765	Farm husbandry.....	C. S. Roff et al.....	15 10
	4766	Farm husbandry.....	M. M. Gilliam et al.....	7 35
	4767	Farm.....	V. G. Brown.....	15 00
	4768	Farm husbandry .....	J. E. Huettig et al.....	19 76
	4769	Subsistence .....	O. L. Ellis et al.....	69 00
	4770	Subsistence.....	T. J. Beesley et al.....	5 25
	4771	Subsistence .....	O. L. Ellis et al.....	165 00
	4772	Military .....	A. and M. C. band.....	17 80
	4773	Military .....	A. and M. C. band.....	51 00
	4774	Civil engineering.....	R. J. Windrow.....	10 00
	4775	Civil engineering .....	E. A. Dubose et al.....	10 25
	4776	Chemical.....	S. Lomanitz.....	9 00
	4777	Botanical.....	A. B. Edsall.....	20 00
	4778	Campus.....	O. L. Ellis et al.....	1 65
	4779	Horticultural.....	A. R. Byrd et al.....	1 65
July 7, 1906	4795	Secretary's office .....	F. S. Puckett et al.....	9 00
	4796	Farm husbandry.....	F. C. Fontaine.....	15 00
July 19, 1906	4957	Chemical.....	John Ashton.....	3 00
	4958	Farm husbandry.....	C. S. Roff et al.....	35 50
	4959	Contingent.....	A. B. Edsall et al.....	40 95
	4960	Phys. and elec. engr.....	Robt. Winston.....	19 88
	4961	Horticulture.....	F. S. Puckett et al.....	10 75
	4962	Horticulture .....	W. Heller.....	21 35
Aug. 4, 1905	5112	Contingent.....	H. Baines.....	11 70
	5113	Contingent.....	John Ashton.....	10 50
	5114	Horticultural.....	W. L. Heller et al.....	41 60
11, 1905	5237	Farm husbandry.....	F. C. Fontaine.....	15 00
	5238	Phys. and elec. engr.....	H. M. Cely.....	10 00
20, 1905	5239	Campus.....	W. L. Haller et al.....	2 00
	5240	Contingent.....	G. A. Hoyo et al.....	9 00
	5241	Contingent.....	John Ashton.....	3 50
31, 1905	5420	Contingent.....	F. S. Puckett.....	3 00
	5421	Farm husbandry.....	F. C. Fontaine.....	8 00
Total.....				\$ 9,829 96

Appropriation 1904-1905.....	\$ 5,000 00		
Appropriation 1905-1906.....	5,000 00		
Balance (unpaid vouchers).....		\$ 170 04	
	\$ 10,000 00	\$ 10,000 00	

## Substation Troupe Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Oct. 26, 1904	218	Salary and labor.....	W. S. Hotchkiss.....	\$ 152 66
	465	Salary .....	W. S. Hotchkiss.....	100 00
	466	Salary.....	E. J. Kyle.....	20 84
Dec. 12, 1904	819	Salary, labor, etc.....	W. S. Hotchkiss.....	94 80
	820	Salary, labor, etc.....	W. S. Hotchkiss.....	78 56
	821	Salary, labor, etc.....	W. S. Hotchkiss.....	150 14
Dec. 28, 1904	965	Expense.....	E. J. Kyle.....	20 84
Jan. 6, 1905	981	Expense.....	E. J. Kyle.....	20 84
Jan. 17, 1905	1205	Expense.....	J. Knight & Son.....	6 00
	1206	Repairs.....	International Harvester Co.....	6 00
	1207	Repairs.....	Brazelton & Johnson.....	11 35
	1208	Repairs.....	O. Weicher & Co.....	5 99
	1209	Repairs.....	J. W. Williams.....	13 51
	1210	Equipment.....	Troupe Hdw. and Implement Co.....	20 90
	1211	Seed.....	Texas Seed and Floral Co.....	5 70
	1212	Seed.....	B. F. Avery & Sons.....	8 14



## Substation Troupe Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 17, 1905	1213	Seed.....	J. R. Adams Hdw. Co.....	\$ 10 50
	1214	Seed.....	Keating Imp. and Supply Co....	14 80
Jan. 31, 1905	1323	Seed.....	E. J. Kyle.....	20 84
Feb. 28, 1905	1697	Seed.....	E. C. Green.....	1 50
	1698	Salary.....	W. S. Hotchkiss.....	100 00
	1699	Salary.....	W. S. Hotchkiss.....	100 00
	1700	Salary.....	W. S. Hotchkiss.....	100 00
	1701	Salary.....	W. S. Hotchkiss.....	69 70
	1702	Expense.....	W. S. Hotchkiss.....	100 60
	1703	Seed.....	Texas Seed and Floral Co.....	2 40
	1704	Expense.....	E. C. Green.....	13 50
	1705	Expense.....	J. R. Adams.....	5 48
	1706	Material.....	Troupe Hardware and Imp. Co....	17 50
	1707	Material.....	Williams & Mills.....	33 28
	1708	Seed.....	Livingston Seed Co.....	1 25
	1780	Salary.....	E. J. Kyle.....	20 84
Mar. 31, 1905	2170	Salary.....	E. J. Kyle.....	20 84
Apr. 10, 1905	2258	Salary and labor.....	W. S. Hotchkiss.....	100 00
	2259	Salary and labor.....	W. S. Hotchkiss.....	166 05
	2260	Salary and labor.....	W. S. Hotchkiss.....	100 00
	2261	Expense.....	J. M. Thorbin & Co.....	6 89
	2262	Expense.....	Truck Farmer Pub. Co.....	18 75
	2263	Expense.....	Void.....	vo 1d
	2264	Expense.....	E. E. Reisian.....	5 00
	2265	Expense.....	R. T. Bradford.....	61 00
	2266	Expense.....	W. A. Burpee.....	2 22
	2267	Expense.....	D. V. Burrow.....	4 65
	2268	Expense.....	B. W. Stone & Co.....	2 75
	2269	Imp.....	Troupe Hardware and Imp. Co....	33 05
	2270	Material.....	J. R. Adams Hdw. Co.....	4 00
	2271	Seed.....	Texas Seed and Floral Co.....	6 35
Apr. 30, 1905	2577	Salary.....	E. J. Kyle.....	20 84
May 11, 1905	2716	Salary.....	W. S. Hotchkiss.....	100 00
	2717	Salary and labor.....	W. S. Hotchkiss.....	92 95
	2718	Material.....	B. F. Avery & Sons.....	18 50
June 3, 1905	2969	Material.....	E. J. Kyle.....	20 84
June 30, 1905	3232	Salary.....	E. J. Kyle.....	20 84
	3251	Salary.....	E. J. Kyle.....	3 35
	3252	Expense.....	E. C. Green.....	8 20
July 10, 1905	3326	Salary.....	W. S. Hotchkiss.....	100 00
	3327	Expense.....	W. S. Myers.....	32 24
	3328	Salary and labor.....	W. S. Hotchkiss.....	100 00
	3329	Salary and labor.....	W. S. Hotchkiss.....	129 58
	3330	Salary and labor.....	W. S. Hotchkiss.....	101 30
	3331	Salary and labor.....	G. L. Williams.....	10 75
Aug. 15, 1905	3590	Salary.....	E. J. Kyle.....	20 84
	3551	Salary.....	W. S. Hotchkiss.....	100 00
	3552	Salary.....	W. S. Hotchkiss.....	3 90
	3553	Expense.....	Thomas Rae.....	26 00
	3554	Expense.....	John Estelle.....	28 00
	3555	Expense.....	Troupe Grain Co.....	14 25
	3556	Expense.....	Dr. Brown.....	9 50
	3557	Expense.....	D. W. Smith.....	6 00
	3558	Expense.....	B. F. Avery & Sons.....	4 02
Aug. 31, 1905	3797	Salary.....	E. J. Kyle.....	20 84
	3893	Express.....	J. M. Murphy.....	4 75
	3894	Seed.....	Texas Seed and Floral Co.....	15 20
	3895	Express.....	W. S. Hotchkiss.....	21 62
	3896	Material.....	C. Weichsel Co.....	9 09
	3897	Material.....	Troupe Hardware and Imp. Co....	18 75
	3898	Material.....	D. Brown.....	3 00
	3899	Salary.....	W. S. Hotchkiss.....	100 00
	3900	Labor.....	J. E. Elmore.....	21 15
	3901	Labor.....	John Ray.....	13 50
	3902	Labor.....	Thos. Ray.....	27 00
	3903	Labor.....	John Estelle.....	28 00
	3904	Expense.....	B. F. Avery & Son.....	9 64
Oct. 4, 1905	139	Expense.....	E. J. Kyle.....	6 15
Oct. 17, 1905	372	Expense.....	W. L. Miles.....	5 90
	373	Expense.....	Troupe Hardware Co.....	8 65
	374	Expense.....	Thos. Ray.....	26 00
	375	Labor.....	John Estelle.....	28 00
	376	Labor.....	C. N. Jordon.....	6 00
	377	Labor.....	J. E. Elmore.....	30 00
	378	Labor.....	W. S. Hotchkiss.....	3 20
	379	Salary.....	W. S. Hotchkiss.....	100 00
	380	Material and expense.....	Troupe Drug Store.....	8 65

## Substation Troupe Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Oct. 17, 1905	381	Expense .....	Troupe Banner.....	7 50
Nov. 1, 1905	721	Expense .....	E. C. Green.....	6 25
Nov. 14, 1905	909	Expense .....	J. F. Lowery.....	3 25
	910	Expense .....	T. Williams.....	22 00
	911	Expense .....	J. Estelle.....	28 00
	912	Expense .....	Troupe Hardware Co..	5 65
	913	Expense .....	J. C. Elmore.....	30 00
	914	Expense .....	C. N. Jordon.....	24 50
	915	Expense .....	J. R. Adams Hardware Co.....	3 65
	916	Salary.....	W. S. Hotchkiss.....	13 50
	917	Salary.....	W. S. Hotchkiss.....	100 00
Dec. 22, 1905	1308	Salary.....	W. S. Hotchkiss.....	100 00
	1309	Expense .....	W. D. Miles.....	13 99
	1310	Feed .....	Troupe Grain and Feed Store .....	4 77
	1311	Expense .....	R. F. Bradford.....	52 00
	1312	Expense .....	Troupe Hardware Co.....	5 00
	1313	Expense .....	W. S. Hotchkiss.....	4 95
	1314	Labor.....	John Estelle.....	28 00
	1315	Labor.....	J. E. Elmore.....	30 00
	1316	Labor.....	C. W. Jordan.....	20 00
	1317	Labor.....	T. Williams.....	11 00
Jan. 17, 1906	1897	Salary.....	W. S. Hotchkiss.....	100 00
	1898	Expense.....	W. S. Hotchkiss.....	15 10
	1899	Expense .....	Troupe Hardware Co.....	24 10
	1900	Labor.....	J. E. Elmore.....	30 00
	1901	Labor.....	John Estelle.....	28 00
Feb. 5, 1906	2430	Salary.....	W. S. Hotchkiss.....	34 96
	2431	Salary.....	W. S. Hotchkiss.....	100 00
	2432	Salary.....	J. E. Elmore.....	32 50
	2433	Salary.....	John Estelle.....	28 00
	2434	Expense .....	Livingston Seed Co.....	2 63
	2435	Material .....	Milne Manufacturing Co.....	100 00
	2436	Material .....	Troupe Novelty Works.....	41 60
Feb. 10, 1906	2504	Expense .....	E. C. Green.....	3 50
Mar. 10, 1906	2814	Salary.....	W. S. Hotchkiss.....	100 00
	2815	Expense .....	W. S. Hotchkiss.....	25 57
	2816	Expense .....	John Cross.....	10 70
	2817	Expense .....	John Estelle.....	28 00
	2818	Expense .....	J. E. Elmore.....	32 50
	2819	Expense .....	John Ray.....	12 50
	2820	Expense .....	J. M. Murphy.....	7 90
	2821	Expense .....	C. Weischel & Co.....	70 16
	2822	Expense .....	Texas Drug Co.....	16 06
	2823	Expense .....	Troupe Hardware Co.....	8 20
Apr. 10, 1906	3439	Salary.....	W. S. Hotchkiss.....	100 00
	3440	Expense .....	W. S. Hotchkiss.....	28 18
	3441	Expense .....	John Estelle.....	28 00
	3442	Labor.....	Thos Ray.....	26 00
	3443	Labor.....	J. E. Elmore.....	32 50
	3444	Labor.....	P. C. Tucker.....	20 00
	3445	Material .....	Tipton Bros.....	10 00
	3446	Material .....	Troupe Hardware Co.....	9 45
	3447	Material .....	D. V. Bunnell.....	3 30
	3448	Material .....	W. S. Miles.....	7 68
	3449	Seed.....	Texas Seed and Floral Co.....	3 90
May 10, 1906	3895	Expense .....	R. T. Bradford.....	11 10
	3896	Trees.....	Sneed Nursery Co.....	26 80
	3897	Labor.....	J. W. Melton.....	23 75
	3898	Labor.....	P. C. Tucker.....	25 00
	3899	Labor.....	J. E. Elmore.....	32 50
	3900	Labor.....	John Estelle.....	28 00
	3901	Labor.....	Thos. Ray.....	25 00
	3902	Salary.....	W. S. Hotchkiss.....	100 00
	3903	Expense .....	W. S. Hotchkiss.....	9 20
	3904	Expense .....	J. M. Murphy.....	11 15
	3905	Expense .....	Troupe Hardware Co.....	5 00
June 7, 1906	4387	Salary.....	W. S. Hotchkiss.....	100 00
	4388	Labor.....	G. C. Seale.....	8 00
	4389	Labor.....	W. S. Ashcroft.....	7 55
	4390	Labor.....	J. E. Elmore.....	32 50
	4391	Labor.....	P. C. Tucker.....	21 00
	4392	Labor.....	John Estelle.....	28 00
	4393	Expense .....	W. S. Hotchkiss.....	16 35
	4394	Expense .....	Floore & Cross.....	6 03
	4830	Expense .....	J. E. Elmore.....	25 00
	4831	Expense .....	Troupe Hardware Co.....	6 70
	4832	Expense .....	W. S. Hotchkiss.....	44 65

Substation Troupe Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
June 7, 1906	4833	Expense .....	G. C. Seale.....	\$ 26 00
	4834	Expense .....	John Estelle.....	28 00
	4835	Salary .....	W. S. Hotchkiss.....	100 00
Aug. 11, 1906	5165	Expense .....	J. A. Moore.....	17 00
	5166	Labor.....	John Estelle.....	28 00
	5167	Labor.....	J. E. Elmore.....	32 50
	5168	Labor.....	G. C. Seale.....	24 00
	5169	Salary .....	W. S. Hotchkiss.....	100 00
	5170	Expense .....	W. S. Hotchkiss.....	14 40
Aug. 31, 1906	5371	Salary .....	W. S. Hotchkiss.....	100 00
	5372	Expense .....	W. S. Hotchkiss.....	12 80
	5373	Expense .....	R. F. Avery & Son.....	4 59
	5374	Expense .....	W. S. Miles.....	39 20
	5375	Expense .....	V. C. Seale.....	9 00
	5376	Expense .....	J. R. Adams.....	6 63
	5377	Expense .....	J. A. Moore.....	4 00
	5422	Expense .....	W. C. Boyett, P. M.....	3 10
Total.....				\$ 6,004 54

Appropriation 1903-1904.....	\$ 3,000 00
Appropriation 1904-1905.....	3,000 00
Overcheck.....	4 54
	\$ 6,004 54

Equipment Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Dec. 12, 1904	739	Physics and E. E.....	Bryan Eagle.....	\$ 2 50
	740	Physics and E. E.....	Southern Schoolbook Depository...	5 86
	741	Physics and E. E.....	Montgomery & Co.....	34 82
	742	Physics and E. E.....	J. A. Myers.....	85
	743	Physics and E. E.....	H. & T. C. Ry. Co.....	1 08
	744	Physics and E. E.....	Pacific Express Co.....	3 20
	745	Physics and E. E.....	Eimer & Amend.....	7 03
	746	Physics and E. E.....	John Wiley & Sons.....	10 00
	747	Physics and E. E.....	A. L. Martin Co.....	175 15
	748	Physics and E. E.....	Clarke & Courts.....	8 50
	749	Physics and E. E.....	G. H. & Webb.....	33 71
	757	Hospital .....	Sanger Bros.....	60 13
	758	Horticulture.....	J. A. Myers.....	27 50
	759	Horticulture.....	J. A. Myers.....	16 93
	760	Horticulture.....	Carter's Studio.....	2 00
	761	Horticulture.....	H. A. Hayett.....	25 80
	762	Horticulture.....	J. T. Hanway.....	8 05
Dec. 28, 1904	897	Horticulture.....	Bryan Eagle.....	19 10
Jan. 10, 1905	1006	Horticulture.....	W. Lemm et al.....	52 50
Jan. 17, 1905	1070	Hospital .....	J. A. Myers.....	34 01
	1071	Horticulture.....	J. A. Myers.....	12 83
	1221	Botanical.....	B. & L. Optical Co.....	45 30
	1240	Agriculture.....	G. H. & Webb.....	886 08
Feb. 5, 1905	1476	Horticulture.....	I. & G. N. Ry. Co.....	93
	1477	Horticulture.....	W. J. Andrews.....	30 75
	1478	Horticulture.....	E. C. Green.....	28 60
	1479	Horticulture.....	E. C. Green.....	10 70
	1480	Horticulture.....	H. & T. C. Ry. Co.....	3 47
	1481	Physics and E. E.....	Wells Fargo Express Co.....	2 50
	1482	Physics and E. E.....	Leeds & Northrop Co.....	273 85
	1483	Physics and E. E.....	Western Elec. Instrument Co.....	108 00
	1484	Physics and E. E.....	Turner Brass Works.....	4 05
	1485	Physics and E. E.....	James & Castles.....	5 75
	1486	Physics and E. E.....	Wesco Supply Co.....	23 35
	1487	Physics and E. E.....	The Willard Storage Battery Co.....	3 29



## Equipment Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Feb. 7, 1905	1488	Physics and E. E.....	C. H. Stoelting Co.....	\$ 45 00
	1489	Physics and E. E.....	McGraw Publishing Co.....	10 09
	1490	Physics and E. E.....	F. W. Heitman & Co.....	37 75
	1491	Physics and E. E.....	The MacMillan Co.....	6 18
	1492	Physics and E. E.....	I. & G. N. Ry. Co.....	1 98
	1493	Physics and E. E.....	I. & G. N. Ry. Co.....	1 77
	1494	Horticulture.....	G. H. & Webb.....	100 29
	1495	Horticulture.....	Laplasik.....	4 35
	1496	Horticulture.....	Bering Cortes Hardware Co.....	2 10
Feb. 20, 1905	1604	Civil engineering.....	Browne & Sharpe Mfg. Co.....	20 42
Mar. 12, 1905	1850	Physics and E. E.....	Central Scientific Co.....	209 42
Mar. 20, 1905	2043	Horticulture.....	Robert Reed.....	11 25
	2044	Horticulture.....	W. J. Andrews.....	42 70
Apr. 10, 1905	2184	Horticulture.....	H. A. Hyatt.....	3 44
	2185	Horticulture.....	G. H. & Webb.....	30 49
	2186	Horticulture.....	J. A. Myers.....	65 70
	2187	Civil engineering.....	General Electric Co.....	208 84
	2188	Civil engineering.....	P. W. Wheel Co.....	55 00
	2189	Civil engineering.....	W. Gurley.....	57 00
	2302	Horticulture.....	W. Lemm et al.....	85 00
Apr. 24, 1905	2434	Civil engineering.....	H. & T. C. Ry. Co.....	129 12
	2435	Civil engineering.....	J. C. Nagle.....	31 84
	2593	Horticulture.....	Wells Fargo Express Co.....	11 05
	2594	Horticulture.....	E. C. Green.....	4 80
	2595	Horticulture.....	I. & G. N. Ry. Co.....	1 57
	2596	Horticulture.....	W. J. Andrews.....	44 95
Apr. 11, 1905	2679	Civil Engineering.....	Riehle Bros. Testing Machine Co..	1,156 00
June 1, 1906	2952	Horticulture.....	H. & T. C. Ry. Co.....	11 70
June 19, 1905	3047	Horticulture.....	H. & T. C. Ry. Co.....	1 65
	3048	Horticulture.....	I. & G. N. Ry. Co.....	84
July 10, 1905	3310	Civil Engineering.....	J. A. Myers.....	5 23
	3311	Civil Engineering.....	J. C. Almee & Co.....	19 65
	3312	Civil Engineering.....	G. H. & Webb.....	26 47
	3313	Civil Engineering.....	W. & L. E. Gurley.....	65 00
	3314	Horticulture.....	G. S. Parker.....	30 98
	3315	Horticulture.....	J. A. Myers.....	6 70
	3316	Horticulture.....	Montgomery, Ward & Co.....	1 99
	3317	Horticulture.....	James & Castles.....	20 70
	3318	Horticulture.....	Mahn Grosh Cutlery Co.....	6 00
	3319	Horticulture.....	W. C. Boyett.....	70
	3320	Horticulture.....	Doubleday, Paige & Co.....	1 00
	3321	Horticulture.....	Bausch Lomb Optical Co.....	53 15
July 10, 1905	3404	Civil engineering.....	Fairbanks Co.....	144 32
	3405	Civil engineering.....	Duncan Hobson Elec. Co.....	27 51
	3497	Agriculture.....	Standish Machine and Supply Co...	173 36
	3498	Agriculture.....	J. A. Myers.....	100 43
14, 1905	3534	Civil engineering.....	S. F. Farley et al.....	23 00
Aug. 15, 1905	3619	Civil engineering.....	Ruhle Bros.....	115 00
	3620	Civil engineering.....	C. L. Burgher & Sons.....	468 90
	3621	Civil engineering.....	J. C. Nagle.....	33 49
	3622	Civil engineering.....	Keuffel & Esser.....	154 20
23, 1905	3736	Civil engineering.....	Eugene Dietzgen & Co.....	39 12
Oct. 4, 1905	3742	Farm husbandry.....	A. Hamilton.....	16 00
	3743	Farm husbandry.....	F. S. Johnston.....	23 75
	3744	Farm husbandry.....	John Wilson.....	30 00
	3745	Farm husbandry.....	C. G. Brown.....	75 00
10, 1905	188	Phys. and elec. engr.....	Levy Bros.....	16 00
	189	Phys. and elec. engr.....	Duncan Hobson Co.....	197 54
	190	Horticultural.....	American Florist.....	1 00
	191	Horticultural.....	Orange Judd Co.....	1 32
	254	Phys. and elec. engr.....	Quinn & Co.....	248 50
	255	Phys. and elec. engr.....	N. H. Brown.....	12 03
23, 1905	495	Veterinary.....	Houston Show Case Co.....	77 50
	496	Veterinary.....	H. Waddell.....	10 50
	497	Animal husbandry.....	University of Illinois.....	8 00
	681	Mechanical engineering.....	American Tool Co.....	272 44
	682	Mechanical engineering.....	Brown & Sharp.....	534 75
	683	Animal husbandry.....	O. R. Quade.....	41 40
31, 1905	684	Animal husbandry.....	F. R. Marshall.....	5 65
	685	Veterinary.....	Ward's Natural Science.....	175 06
	686	Horticulture.....	J. A. Myers.....	63 00
	717	Mechanical engineering.....	I. & G. N. Ry.....	35 52
	718	Mechanical engineering.....	I. & G. N. Ry.....	37 56
Nov. 1, 1905	724	Veterinary.....	I. & G. N. Ry.....	1 78
	725	Veterinary.....	I. & G. N. Ry.....	22 56
	783	Phys. and elec. engr.....	N. H. Brown.....	126 30
14, 1905	906	Animal husbandry.....	C. R. Doty.....	125 00

## Equipment Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 30, 1905	1082	Phys. and elec. engr.....	Leeds & Northrup Co.....	\$ 948 19
	1161	Phys. and elec. engr.....	W. Bingham Co.....	103 32
	1162	Phys. and elec. engr.....	Duncan Hobson Elec. Co.....	44 04
	1163	Phys. and elec. engr.....	Waters Pierce Oil Co.....	28 04
	1164	Phys. and elec. engr.....	Elec. Journal.....	3 25
	1165	Phys. and elec. engr.....	F. J. Drake & Co.....	1 05
	1166	Phys. and elec. engr.....	Am. Inst. of Elec. Engr.....	4 45
	1167	Phys. and elec. engr.....	Gen. Elec. Co.....	132 05
	1168	Phys. and elec. engr.....	Duyer Machine Co.....	136 00
	1169	Phys. and elec. engr.....	Collection supplies.....	35 00
	1170	Phys. and elec. engr.....	Wesco Supply Co.....	66 18
	1171	Phys. and elec. engr.....	North Elec. Co.....	212 00
	1172	Phys. and elec. engr.....	Westinghouse Elec. Mfg. Co.....	220 00
	1173	Phys. and elec. engr.....	Seneca Falls Mfg. Co.....	207 76
	1174	Horticulture.....	C. Weichsel.....	3 64
	1175	Horticulture.....	Doubleday, Paige & Co.....	8 55
	1176	Veterinary.....	Houston Show Case Co.....	77 50
	1177	Farm husbandry.....	F. W. Heitman & Co.....	90 57
	1178	Farm husbandry.....	Munday & Molehlman.....	2 50
	1179	Farm husbandry.....	Stevenson M. and T. Works.....	42 45
	1180	Botanical.....	Hammechar & Schlemmer.....	7 50
	1181	Mechanical engineering.....	F. W. Heitman & Co.....	49 87
	1186	Mechanical engineering.....	Wells Fargo Express.....	2 00
	1197	Veterinary.....	M. Francis.....	4 48
	1198	Veterinary.....	Wells Fargo Express.....	5 20
	1226	Lathes.....	B. W. Machine Co.....	3 41
	1227	Lathes.....	J. L. Robertson & Sons.....	35 30
Dec. 11, 1905	1262	Veterinary.....	H. & T. C. Ry.....	2 58
	1263	Farm husbandry.....	I. & G. N. Ry.....	17 26
	1264	Farm husbandry.....	I. & G. N. Ry.....	2 90
22, 1905	1355	P. and E. E.....	Duncan Hobson Elec. Co.....	61 56
	1356	P. and E. E.....	J. Wiley & Sons.....	3 45
	1357	P. and E. E.....	A. Thompson & Co.....	10 80
	1358	P. and E. E.....	Kitesman Bros.....	10 10
	1359	P. and E. E.....	Central Lab. and Supply Co.....	36 00
	1360	P. and E. E.....	Span & Chamberlain.....	75
	1361	P. and E. E.....	D. Nostrand.....	2 90
	1362	P. and E. E.....	J. A. Myers.....	12 70
	1363	P. and E. E.....	E. Dietzgen & Co.....	10 88
	1365	P. and E. E.....	D. & H. Elec. Co.....	8 21
	1366	P. and E. E.....	McGraw Pub. Co.....	5 00
	1367	Horticulture.....	McMillan Co.....	1 91
	1368	Veterinary.....	Bausch & Lomb.....	14 72
	1369	Veterinary.....	Levy Bros.....	29 40
	1468	Horticulture.....	McMillan Co.....	1 26
Jan. 8, 1906	1712	Mechanical engineering.....	Standard Gauge Mfg. Co.....	9 60
	1713	Mechanical engineering.....	Bausch & Lomb.....	19 50
	1714	P. and E. E.....	Duncan Hobson Elec. Co.....	18 63
	1715	Farm husbandry.....	Waters Pierce Oil Co.....	21 60
	1716	Farm husbandry.....	G. H. & Webb.....	11 15
Jan. 8, 1906	1759	P. and E. E.....	The scientific shop.....	293 00
	1760	P. and E. E.....	Stow Manufacturing Co.....	261 00
	1761	P. and E. E.....	Westinghouse Manufacturing Co.....	176 00
	1762	P. and E. E.....	Duncan Hobson Electrical Co.....	145 00
	1763	P. and E. E.....	Wilson & Edge.....	2 38
	1782	Mechanical engineering.....	Crosby Steam Gauge Co.....	40 00
	1783	Mechanical engineering.....	Fairbanks Co.....	62 27
	1784	Horticulture.....	J. Wiley & Sons.....	4 80
Jan. 11, 1906	1844	Farm husbandry.....	G. H. & Webb.....	7 40
	1845	Mycology.....	Levy Bros.....	15 00
Jan. 20, 1906	1988	Farm husbandry.....	J. R. Clisby.....	4 00
	1989	Farm husbandry.....	Bryan Mach. and Repair Co.....	5 00
	2076	Farm husbandry.....	I. & G. N. Ry.....	21 16
Feb. 1, 1906	2333	Veterinary.....	Wells Fargo Express Co.....	33 15
	2411	Civil engineering.....	Theo. Schmiedkind.....	11 00
	2412	P. and E. E.....	Spohn & Chamberlain.....	2 54
	2413	Mechanical engineering.....	Manning, Max & Moore.....	26 94
	2414	P. and E. E.....	J. Wiley & Sons.....	6 01
	2461	Horses (agriculture).....	E. G. Graves.....	450 00
Feb. 10, 1906	2505	Farm husbandry.....	H. & T. C. Ry.....	1 40
	2506	Farm supplies.....	F. S. Johnston.....	16 80
	2507	Farm supplies.....	August Schill.....	35 50
	2508	Farm supplies.....	Wells Fargo Express.....	25
	2509	Farm supplies.....	C. W. Boyce.....	25
	2510	P. and E. E.....	H. & T. C. Ry.....	4 16
Feb. 15, 1906	2604	Veterinary.....	Wards A. Lab.....	45 63
	2605	Farm husbandry.....	F. W. Heitman.....	84 88

## Equipment Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Feb. 15, 1906	2606	Chemistry .....	Bering Cortes Hardware Co.....	6 60
	2635	Mechanical engineering.....	F. W. Heitman.....	43 05
	2636	Mechanical engineering.....	C. E. Lock. Manufacturing Co.....	4 50
	2637	Farm husbandry.....	Manson Campbell Co.....	15 00
	2638	Farm husbandry.....	G. H. & Webb.....	18 45
Feb. 20, 1906	2669	Farm husbandry.....	H. & T. C. Ry.....	9 42
	2670	Farm husbandry.....	Wells Fargo Express.....	1 35
	2671	Civil engineering.....	Joe Green.....	20 35
Mar. 10, 1906	2843	Farm husbandry.....	F. W. Heitmann & Co.....	6 62
	2844	Farm husbandry.....	G. H. & Webb.....	10 37
	2845	Farm husbandry.....	Challenge Wind Mill Co.....	1 80
	2846	Civil engineering.....	J. C. Nagle.....	7 75
	2899	Mechanical engineering.....	Sargent Steam Heater Co.....	137 45
	2940	Farm husbandry.....	August Schill.....	32 87
	2941	Farm husbandry.....	Wells Fargo Express.....	80
	2942	Mechanical engineering.....	Pacific Express.....	1 15
	3008	Civil engineering.....	Cole Hardware Co.....	25 50
	3009	P. and E. E.....	M. H. James.....	1 35
	3010	P. and E. E.....	Duncan Hobson Electric Co.....	60
	3011	P. and E. E.....	Spohn & Chamberlain.....	5 00
	3012	P. and E. E.....	McGraw Publishing Co.....	83
	3013	P. and E. E.....	Westinghouse Electric Mfg. Co.....	9 52
	3014	P. and E. E.....	E. J. Jenkins.....	6 00
	3015	P. and E. E.....	Yale & Towne Mfg. Co.....	87
	3016	P. and E. E.....	Central Laboratory Supply Co.....	125 10
Mar. 15, 1906	3052	Mechanical engineering.....	G. H. & Webb.....	13 70
	3053	Mechanical engineering.....	Manning, Max. & Moore.....	6 25
	3054	Mechanical Engineering.....	Hersey Manufacturing Co.....	25 00
	3055	Mechanical Engineering.....	F. W. Heitmann & Co.....	60 74
	3056	Mechanical Engineering.....	Dean Steam Pump Co.....	100 00
	3057	Mechanical engineering.....	Marshall & Hushart.....	40 00
Mar. 17, 1906	3104	Mechanical engineering.....	Pacific Express.....	1 00
	3105	Mechanical engineering.....	I. & G. N. Ry.....	2 67
	3106	Mechanical engineering.....	I. & G. N. Ry.....	11 82
Mar. 30, 1906	3193	Chemistry.....	Bering Cortes Manufacturing Co.....	18 23
	3194	Chemistry.....	Yale & Towne Manufacturing Co.....	20 63
	3322	Mechanical engineering.....	J. L. Robertson & Son.....	23 00
	3323	Mechanical engineering.....	American Steam Pump Co.....	25 00
	3373	Agricultural.....	Wells Fargo Express.....	1 30
	3374	Agricultural.....	Wells Fargo Express.....	50
	3375	Mechanical engineering.....	I. & G. N. Ry.....	3 02
April 10, 1906	3394	Chemical.....	Bering Manufacturing Co.....	21 45
	3395	Farm husbandry.....	University of Nebraska.....	1 85
Apr. 10, 1906	3396	Farm husbandry.....	G. H. & Webb.....	28 06
	3397	Chemistry.....	G. H. & Webb.....	29 18
	3398	Mechanical engineering.....	H. J. Green.....	39 10
	3399	Mechanical engineering.....	Schaffer & Buttonburg.....	48 00
	3400	Mechanical engineering.....	Crane & Co.....	121 49
	3401	Mechanical engineering.....	I. & G. N. Ry. Co.....	12 51
	3402	Mechanical engineering.....	Kerr Turbine Co.....	237 49
17, 1906	3540	Farm husbandry.....	W. H. McVey.....	2 00
	3541	Farm husbandry.....	D. M. Mize.....	2 50
	3542	Farm husbandry.....	B. G. Wallace.....	18 00
	3543	Farm husbandry.....	August Schill.....	9 60
	3544	Farm husbandry.....	C. W. Boyce.....	8 50
	3545	Chemistry.....	J. C. Green.....	28 40
	3546	Mechanical engineering.....	I. & G. N. Ry. Co.....	1 33
	3547	Mechanical engineering.....	I. & G. N. Ry. Co.....	1 39
	3548	Mechanical engineering.....	Wells Fargo Express Co.....	30
	3549	Mechanical engineering.....	H. & T. C. Ry. Co.....	1 77
23, 1906	3605	Horticulture.....	Doubleday Paige & Co.....	2 00
	3606	Horticulture.....	Nut Growers Co.....	50
May 10, 1906	3932	Farm husbandry.....	Houston Drug Co.....	2 10
	3933	Farm husbandry.....	J. A. Myers.....	14 68
	3934	Farm husbandry.....	G. H. & Webb.....	19 53
	3935	Farm husbandry.....	G. H. & Webb.....	6 30
	3936	Farm husbandry.....	J. W. Myers.....	6 15
	3937	Farm husbandry.....	J. T. Hanway.....	10 00
	3938	Farm husbandry.....	Sanger Bros.....	9 00
	3939	Farm husbandry.....	G. H. & Webb.....	4 25
	3940	Farm husbandry.....	Stevenson Mach. and Rep. Co.....	53 45
	3941	Farm husbandry.....	Wagner & Brandon.....	4 02
	3942	Farm husbandry.....	C. H. Dana.....	1 05
	3943	Farm husbandry.....	Creamery Package Co.....	7 60
	3944	Chemical.....	Hill Bros. & Co.....	9 60
	3945	Chemical.....	Bering Cortes Hdw. Co.....	1 12
	3946	Mechanical engineering.....	Manning, Max & Moore.....	14 56



## Equipment Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
May 10, 1906	3947	Mechanical engineering.....	E. Dietzgen & Co.....	45 25
	3948	Mechanical engineering.....	Bauch & Lomo.....	41 36
	3949	Mechanical engineering.....	W. Baragwanath & Son.....	37 50
	3950	Mechanical engineering.....	Crosby Steam Gauge and V. Co.....	5 25
	3951	Mechanical engineering.....	Ann. Steam Gauge and Valve Co.....	3 78
	3952	Mechanical engineering.....	F. W. Heitman & Co.....	28 30
	3953	Mechanical engineering.....	J. A. Myers.....	52 25
	3954	Mechanical engineering.....	Jas. L. Robertson & Son.....	3 00
	4021	Botanical.....	O. M. Ball.....	5 63
	4022	Mechanical engineering.....	Wells Fargo Express Co.....	1 20
	4023	Mechanical engineering.....	Wells Fargo Express Co.....	45
	4024	Mechanical engineering.....	Wells Fargo Express Co.....	45
	4025	Mechanical engineering.....	I. & G. N. Ry. Co.....	36 79
	4026	Mechanical engineering.....	I. & G. N. Ry. Co.....	1 30
	4027	Mechanical engineering.....	I. & G. N. Ry. Co.....	2 93
	4028	Mechanical engineering.....	I. & G. N. Ry. Co.....	8 43
	4029	Farm husbandry.....	Wells Fargo Express Co.....	50
	4030	Farm husbandry.....	Wells Fargo Express Co.....	25
	4031	Farm husbandry.....	Aug. Schill.....	39 79
	4032	Farm husbandry.....	A. Turner.....	6 00
	4033	Farm husbandry.....	W. C. Boyett.....	75
	4034	Farm husbandry.....	J. W. Loving et al.....	9 05
16, 1906	4132	Farm husbandry.....	J. A. Myers.....	16 40
	4133	Botanical.....	Torrey Bot. Club.....	6 00
	4134	Mechanical engineering.....	Foos Gas Engine Co.....	215 00
21, 1906	4135	Horticulture.....	W. V. Glass.....	16 66
	4166	Mechanical engineering.....	W. Powell & Co.....	6 06
	4167	Mechanical engineering.....	J. A. Myers.....	30 00
	4168	Mechanical engineering.....	Sterling Con. Boiler Works.....	80 00
	4169	Physics & E. E.....	Wesco Supply Co.....	2 58
	4212	Mechanical engineering.....	Pacific Express Co.....	1 15
	4213	Mechanical engineering.....	I. & G. N. Ry. Co.....	8 64
	4214	Mechanical engineering.....	I. & G. N. Ry. Co.....	1 74
	4215	Mechanical engineering.....	H. & T. C. Ry. Co.....	45 15
	4216	Farm husbandry.....	H. & T. C. Ry. Co.....	2 19
	4217	Farm husbandry.....	I. & G. N. Ry. Co.....	5 05
	4218	Farm husbandry.....	I. & G. N. Ry. Co.....	2 60
	4219	Farm husbandry.....	Pacific Express Co.....	1 90
May 30, 1906	4247	P. and E. E.....	Nearst Lamp Co.....	9 06
	4248	Mechanical engineering.....	Schaffer & Battenburg.....	48 00
	4249	Mechanical engineering.....	Aschroff Mfg. Co.....	92 40
June 7, 1906	4417	Civil engineering.....	Tinnies, Olsen & Co.....	425 00
	4418	Farm husbandry.....	Emil & Amend.....	8 89
	4419	Farm husbandry.....	F. W. Heitman & Co.....	30 71
	4420	Farm husbandry.....	Waters Pierce Oil Co.....	31 90
	4421	Farm husbandry.....	G. H. & Webb.....	1 60
	4422	Animal husbandry.....	Dorsey Printing Co.....	25 00
	4423	Mechanical engineering.....	W. H. Bristol.....	59 50
	4424	Mechanical engineering.....	G. H. & Webb.....	3 20
	4425	Mechanical engineering.....	Atlas Engine Works.....	170 00
	4445	Farm husbandry.....	E. Burroughs.....	5 50
	4446	Farm husbandry.....	D. Martain.....	3 38
	4447	Farm husbandry.....	Wells Fargo Express.....	10 65
	4448	Farm husbandry.....	Wells Fargo Express.....	3 10
	4449	Farm husbandry.....	E. Burrow.....	3 00
	4450	Horticultural.....	J. S. Wier.....	7 05
	4451	Horticultural.....	Mac Jourdan.....	27 00
	4452	Mechanical engineering.....	Wells Fargo Express.....	3 36
	4453	Mechanical engineering.....	Pacific Express.....	2 40
June 9, 1906	4497	Mechanical engineering.....	I. & G. N. Ry.....	1 57
11, 1906	4506	Farm husbandry.....	W. J. Andrews.....	6 25
	4507	Farm husbandry.....	W. J. Andrews.....	27 00
26, 1906	4549	Civil engineering.....	J. A. Myers.....	10 43
	4584	Animal husbandry.....	Department of Phys. and E. E.....	7 50
	4585	P. and E. E.....	James & Nunn.....	10 80
30, 1906	4672	Botanical.....	W. V. Glass.....	10 20
	4673	Horticultural.....	W. Andrews.....	13 75
	4674	Mechanical engineering.....	I. & G. N. Ry.....	1 55
July 7, 1906	4810	Horticultural.....	E. C. Green.....	4 25
	4811	Botanical.....	University of Chicago Press.....	5 00
	4886	Mechanical engineering.....	F. W. Heitman & Co.....	89 35
19, 1906	4967	Chemical.....	I. & G. N. Ry.....	4 43
	4968	P. and E. E.....	N. H. Brown.....	15 60
	4969	Horticulture.....	A. K. Bell.....	20 00
	4970	Chemical.....	Houston Show Case Co.....	82 00
	4975	Animal husbandry.....	J. A. Myers.....	5 55
	4976	Animal husbandry.....	E. C. Harder & Co.....	20 30

## Equipment Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
July 19, 1906	4977	Animal husbandry.....	O. A. Foster.....	\$ 11 33
24, 1906	4978	Farm husbandry.....	International Instrument Co. ....	85 25
	4979	Agriculture .....	Sanger Bros.....	4 50
	4980	Agriculture .....	Creamery Package Mfg. Co.....	35 65
	4981	Agriculture .....	Creamery Package Mfg. Co.....	24 37
Aug. 4, 1906	5067	Horticulture.....	Am. Breeders Association .....	1 00
	5068	Horticulture.....	Carter & Maris.....	1 28
	5069	Horticulture.....	J. A. Myers.....	25 85
	5070	Horticulture.....	O. Weischel Co.....	2 55
20, 1906	5257	Horticulture.....	J. A. Myers.....	3 60
	5260	Farm husbandry.....	T. Haswell.....	6 65
	5261	Farm husbandry.....	Kitsalman & Bros.....	5 85
	5262	Farm husbandry.....	International Harvester Co.....	3 55
	5263	Farm husbandry.....	International Harvester Co.....	1 58
	5264	Farm husbandry.....	Department of Phys. and E. E. ....	30 44
	5265	Farm husbandry.....	J. A. Myers.....	6 00
	5266	Farm husbandry.....	G. H. & Webb.....	33 90
	5267	Farm husbandry.....	Creamery Package Mfg. Co.....	121 50
	5268	Farm husbandry.....	F. W. Heitman & Co.....	8 35
	5269	Farm husbandry.....	Carter's Studio.....	30 00
	5270	Farm husbandry.....	De Lavalve Separator Co.....	150 00
	5271	Farm husbandry.....	Creamery Package Mfg. Co.....	2 88
	5279	Horticulture.....	G. S. Parker.....	14 64
Aug. 31, 1906	5401	Farm husbandry.....	F. W. Heitman & Co.....	50 63
	5402	Farm husbandry.....	J. A. Myers.....	25 75
	5403	Horticulture.....	Howell Bros.....	2 35
	5404	Horticulture.....	Texas Seed and Floral Co.....	5 40
	5405	Horticulture.....	Texas Seed and Floral Co.....	80
Total.....				\$ 16,946 38
Balance of 1904-1905.....				\$ 6,548 09
Appropriation 1905-1906.....				11,000 00
Balance covered by unpaid vouchers.....				\$ 601 71
				\$ 17,548 09      \$ 17,548 09

Warehouse Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Oct. 4, 1905	138	Express.....	Wells Fargo Express.....	\$ 25
31, 1905	653	Material.....	Hill Bros.....	65 40
	698	Contract.....	Harrison & Nelson.....	1,185 00
Nov. 14, 1905	905	Contract.....	Harrison & Nelson.....	1,339 50
22, 1905	923	Advertising (bids).....	Dallas News.....	3 20
30, 1905	1243	Contract.....	Harrison & Nelson.....	985 50
Jan. 8, 1906	1840	Contract.....	Harrison & Nelson.....	1,180 00
25, 1906	2120	Architect.....	F. E. Giesecke.....	125 00
30, 1906	2283	Material.....	Wesco Supply Co.....	42 50
Feb. 1, 1906	2325	Labor.....	Geo. Henry.....	1 50
	2326	Labor.....	Ollie Jorden.....	4 50
10, 1906	2493	Labor.....	W. C. Boyett.....	10 60
25, 1906	2690	Expense.....	L. F. Battle.....	11 25
Mar. 17, 1906	3107	Material.....	H. & T. C. Ry.....	22 95
Apr. 10, 1906	3423	Material.....	W. B. & L. Co.....	16 55
17, 1906	3569	Labor.....	Louis Parks.....	1 50
July 7, 1906	4793	Material.....	G. H. & Webb.....	4 30
Aug. 31, 1906		To correct voucher No. 2283.....		06
Total.....				\$ 4,999 56

Appropriation.....	\$ 5,000 00		
Balance.....		\$ 44	
	\$ 5,000 00	\$ 5,000 00	

Repair Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Oct. 4, 1905	9	Labor.....	R. Jackl.....	\$ 9 40
	10	Labor.....	R. Jackl.....	7 50
	11	Labor.....	E. Pearson.....	250 00
	12	Labor.....	E. Pearson.....	98 05
	13	Express.....	Wells Fargo Express Co.....	55
	14	Labor.....	W. J. Andrews.....	29 40
	18	Freight.....	H. & T. C. Ry. Co.....	88
	19	Stand pipe.....	H. & T. C. Ry. Co.....	87 05
23, 1905	498	Labor.....	E. Pearson.....	134 60
	499	Material.....	J. A. Myers.....	56 15
	500	Material.....	W. C. Grice.....	3 50
	501	Material.....	G. H. & Webb.....	211 25
	502	Material.....	C. L. & T. Bering.....	14 22
	503	Material.....	T. Haswell.....	151 20
	522	Material.....	A. E. Withers.....	35 05
31, 1905	535	Labor.....	Sessums et al.....	10 00
	536	Labor.....	E. Pearson.....	45 85
	537	Labor.....	H. T. Lewis et al.....	151 75
	538	Labor.....	W. J. Andrews et al.....	69 50
	677	Material.....	G. H. & Webb.....	86 13
	678	Material.....	N. Randolph & Son.....	11 15
	679	Material.....	Houston Drug Co.....	9 00
	680	Material.....	G. S. Parker.....	341 51
Nov. 1, 1905	730	Labor.....	C. E. Jenkins.....	7 00
	731	Labor.....	E. Sessums.....	5 00
	732	Labor.....	A. Sessums.....	10 90
	733	Freight.....	H. & T. C. Ry. Co.....	80
	734	Freight.....	H. & T. C. Ry. Co.....	35
	735	Freight.....	H. & T. C. Ry. Co.....	1 31
9, 1905	803	Freight.....	H. & T. C. Ry. Co.....	36
	804	Labor.....	A. Sessums.....	12 50
	849	Labor.....	E. Pearson et al.....	128 05
	850	Material.....	E. Dietzgen Co.....	29 70
	851	Material.....	Cole Hardware Co.....	11 62



## Repair Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 9, 1905	852	Material.....	T. Haswell.....	\$ 54 80
14, 1905	907	Material.....	G. H. & Webb.....	28 70
30, 1905	1084	Cisterns.....	Joe Harrison.....	18 00
	1094	Freight.....	H. & T. C. Ry. Co.....	3 97
	1095	Freight.....	I. & G. N. Ry. Co.....	7 18
	1096	Freight.....	I. & G. N. Ry. Co.....	39
	1097	Labor.....	A. Sessums.....	11 00
	1098	Labor.....	W. J. Andrews.....	38 75
	1237	Labor.....	S. H. Pierce et al.....	30 45
Dec. 11, 1905	1259	Labor.....	A. Harrison.....	2 10
	1260	Labor.....	A. Sessums.....	11 90
	1261	Freight.....	I. & G. N. Ry. Co.....	2 26
22, 1905	1352	Material.....	J. A. Myers.....	97 15
	1353	Material.....	Wagner & Brandon.....	5 94
	1354	Material.....	G. H. & Webb.....	39 35
Jan 8, 1906	1595	Labor.....	A. Sessums.....	1 90
	1596	Express.....	Wells Fargo Express Co.....	1 50
	1597	Labor.....	A. Sessums.....	7 50
	1598	Labor.....	W. J. Andrews et al.....	54 50
	1599	Labor.....	W. J. Andrews et al.....	72 50
	1600	Labor.....	E. Pearson et al.....	37 70
	1702	Material.....	E. Dietzgen Co.....	23 76
	1703	Material.....	J. A. Myers.....	6 35
	1704	Material.....	Duncan Hobson Elec. Co.....	148 30
	1705	Material.....	Bryan Eagle.....	1 90
	1779	Material.....	J. A. Myers.....	63 48
	1780	Material.....	M. H. James.....	5 30
	1781	Material.....	G. H. & Webb.....	101 91
11, 1906	1872	Labor.....	Harrison & Nelson.....	45 80
20, 1906	2023	Material.....	Dallas Boiler Works.....	522 95
	2024	Labor.....	W. Rigby.....	181 00
	2025	Labor.....	S. H. Pierce et al.....	34 20
	2026	Express.....	Wells Fargo Express Co.....	1 40
	2027	Freight.....	H. & T. C. Ry. Co.....	2 70
	2028	Freight.....	H. & T. C. Ry. Co.....	1 59
	2029	Freight.....	I. & G. N. Ry. Co.....	1 39
25, 1906	2117	Contract.....	I. H. Newton.....	213 00
	2119	Painting.....	E. Pearson.....	204 00
	2121	Architect.....	F. E. Giesecke.....	125 00
30, 1906	2259	Material.....	N. Randolph & Sons.....	16 45
	2260	Material.....	Jas. Bute.....	45 48
	2261	Material.....	Duncan Hobson Elec. Co.....	60 01
Feb. 1, 1906	2309	Painting.....	E. Pearson et al.....	162 65
	2329	Labor.....	A. H. Pierce et al.....	63 35
	2330	Express.....	Pacific Express Co.....	1 00
	2331	Freight.....	I. & G. N. Ry. Co.....	36
	2332	Freight.....	H. & T. C. Ry. Co.....	7 62
10, 1906	2465	Stand pipe.....	Dallas Boiler Works.....	150 00
15, 1906	2522	Freight.....	H. & T. C. Ry. Co.....	36
	2631	Material.....	Duncan Hobson Elec. Co.....	18 10
	2632	Material.....	T. Haswell.....	79 15
	2633	Material.....	Peden Iron & Steel Co.....	4 00
	2634	Material.....	Bering Manufacturing Co.....	69 17
20, 1906	2659	Labor.....	J. O. Green.....	15 15
	2660	Labor.....	W. J. Andrews.....	74 25
	2661	Freight.....	H. & T. C. Ry. Co.....	75
	2662	Freight.....	H. & T. C. Ry. Co.....	1 85
Total.....				\$ 5,002 55
Appropriation.....				\$ 5,000 00
Overcheck.....				2 55
				\$ 5,002 55

Hack and Team Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Oct. 10, 1905	137	Freight.....	H. & T. C. Ry.....	\$ 9 78
	256	Material.....	Fife & Miller.....	300 75
Feb. 10, 1906	2489	Labor.....	J. R. Robertson.....	6 00
	2490	Freight.....	H. & T. C. Ry.....	20 80
Mar. 30, 1906	3195	Agricultural.....	Fife & Miller.....	56 50
April 10, 1906	3429	Harness.....	J. T. Hanway.....	2 50
April 23, 1906	3607	Harness.....	Tom Padgett Co.....	3 00
May 30, 1906	4239	Harness.....	J. T. Hanway.....	1 00
Aug. 4, 1906	5137	Expense.....	J. Hubernak.....	75
Total.....				\$ 401 08

Appropriation..... \$ 400 00  
 Overcheck..... 1 08

\$ 401 08

Roads and Grounds Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Aug. 15, 1905	3623	Labor.....	J. C. Nagle.....	\$ 72 40
	3624	Gravel.....	Allen Curry Co.....	33 75
	3625	Grass killer.....	Texas Chemical Works.....	8 00
	3626	Freight.....	I. & G. N. Ry.....	58 50
	3627	Dumping beds.....	G. H. & Webb.....	31 09
	3628	Gravel.....	Allen Curry Co.....	85 80
	3629	Labor.....	J. P. Atkins et al.....	67 95
	3630	Salary.....	J. C. Nagle.....	62 50
Aug. 17, 1905	3666	Bridges.....	G. S. Parker.....	97 96
	3667	Labor.....	T. Haswell.....	6 80
Aug. 23, 1905	3712	Labor.....	J. P. Atkins et al.....	78 65
	3713	Freight.....	I. & G. N. Ry.....	98 12
Aug. 28, 1905	3759	Tools.....	J. A. Myers.....	30 60
	3760	Gravel.....	Allen Curry Lumber Co.....	212 78
Aug. 31, 1905	3803	Salary.....	J. C. Nagle.....	125 00
	3804	Salary.....	J. C. Nagle.....	12 33
	3805	Gravel.....	Allen Curry Lumber.....	8 80
	3864	Freight.....	I. & G. N. Ry.....	121 43
	3865	Labor.....	J. P. Atkins et al.....	68 00
	3866	Freight.....	I. & G. N. Ry.....	40 76
	3918	Labor.....	E. C. Boyett.....	50 00
Oct. 4, 1905	4	Freight.....	I. & G. N. Ry.....	104 22
	5	Labor.....	W. C. Boyett.....	29 00
	6	Labor.....	W. C. Boyett.....	17 50
	7	Labor.....	W. C. Boyett.....	53 75
	8	Labor.....	W. C. Boyett.....	14 75
Oct. 17, 1905	444	Freight.....	I. & G. N. Ry.....	121 46
	445	Labor.....	W. C. Boyett.....	15 50
	446	Labor.....	W. C. Boyett.....	58 95
Oct. 23, 1905	493	Gravel.....	Allen Curry Lumber Co.....	132 00
	494	Gravel.....	Allen Curry Lumber Co.....	119 63
Oct. 31, 1905	650	Labor.....	J. C. Nagle.....	87 50
	689	Labor.....	W. C. Boyett.....	35 55
	690	Labor.....	W. C. Boyett.....	68 05
	691	Freight.....	I. & G. N. Ry.....	121 63
Nov. 1, 1905	789	Freight.....	I. & G. N. Ry.....	170 31
	790	Labor.....	W. C. Boyett.....	122 55
Nov. 11, 1905	853	Gravel.....	Allen Curry Lumber Co.....	378 40
	854	Material.....	G. H. & Webb.....	74 30
	855	Labor.....	Campus department.....	51 00
Nov. 30, 1905	979	Freight.....	I. & G. N. Ry.....	96 45
	980	Labor.....	W. C. Boyett.....	63 35
	1085	Labor.....	W. C. Boyett.....	232 20
	1086	Freight.....	I. & G. N. Ry.....	140 37

**Roads and Grounds Account—continued.**

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 30, 1905	1182	Gravel.....	Allen Curry Lumber Co.....	\$ 321 75
	1244	Labor.....	W. C. Boyett.....	89 25
	1245	Labor.....	W. C. Boyett.....	75 30
	1246	Freight.....	I. & G. N. Ry.....	90 87
Jan. 20, 1906	2003	Labor.....	W. C. Boyett.....	34 50
Feb. 10, 1906	2486	Gravel.....	Allen Curry Lumber Co.....	187 00
	2487	Freight.....	I. & G. N. Ry.....	95 39
	2488	Labor.....	W. C. Boyett.....	49 55
Feb. 20, 1906	2672	Labor.....	W. C. Boyett.....	18 90
Mar. 10, 1906	2938	Labor.....	W. C. Boyett.....	12 95
	2939	Labor.....	W. C. Boyett.....	19 35
Mar. 30, 1906	3665	Labor.....	W. C. Boyett.....	13 50
Total.....				\$ 4,774 85
Balance of appropriation of 1903-1904.....				\$ 4,775 00
Balance.....				\$ 15
				\$ 4,775 00
				\$ 4,775 00

**Textile Building Account.**

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Sept. 12, 1904	1	Salary.....	J. S. Wier.....	\$ 94 35
	2	Salary.....	J. S. Wier.....	166 66
	3	Salary.....	J. S. Wier.....	166 66
	4	Expenses.....	J. S. Wier.....	195 96
	6	Contract.....	G. H. & Webb.....	2,493 75
Sept. 15, 1904	156	Contract.....	Harrison & Nelson.....	1,050 57
Sept. 22, 1904	219	Equipment.....	I. & G. N. Ry. Co.....	520 51
	226	Expenses.....	A. E. Withers.....	29 38
Nov. 11, 1904	330	Equipment.....	H. & T. C. Ry. Co.....	281 24
	331	Architect fees.....	J. E. Serrine.....	194 37
Nov. 24, 1904	492	Freight.....	I. & G. N. Ry. Co.....	48 75
	493	Freight.....	I. & G. N. Ry. Co.....	30 57
	494	Freight.....	I. & G. N. Ry. Co.....	106 50
	495	Freight.....	I. & G. N. Ry. Co.....	1 27
	496	Freight.....	I. & G. N. Ry. Co.....	11 44
	497	Expense.....	J. H. B. Piper.....	8 75
	498	Labor.....	W. Burns.....	3 50
	499	Expenses.....	W. C. Boyett.....	10 60
	500	Freight.....	H. & T. C. Ry. Co.....	3 33
	501	Freight.....	H. & T. C. Ry. Co.....	27 80
	502	Freight.....	H. & T. C. Ry. Co.....	12 10
	503	Expenses.....	Pacific Express Co.....	25
Dec. 12, 1904	795	Freight.....	H. & T. C. Ry. Co.....	1 85
	796	Freight.....	H. & T. C. Ry. Co.....	3 44
	797	Freight.....	I. & G. N. Ry. Co.....	156 50
	798	Freight.....	I. & G. N. Ry. Co.....	43 47
	822	Machinery.....	Park Manufacturing Co.....	219 50
	823	Machinery.....	Woonsocket Machine and Press Co.....	268 20
	824	Machinery.....	Phil. Textile School.....	1,020 00
	825	Machinery.....	L. M. Ramsey Manufacturing Co.....	36 66
	826	Machinery.....	H. B. Amer Manufacturing Co.....	1,916 08
	827	Machinery.....	Kitson Machine Co.....	450 00
	828	Dwelling.....	G. H. & Webb.....	900 00
	829	Freight.....	I. & G. N. Ry. Co.....	237 97
	830	Traveling expenses.....	D. F. Houston.....	168 85
	850	Material.....	G. H. & Webb.....	26 21
	851	Expenses.....	Bryan Eagle.....	4 50
	852	Expenses.....	Bryan Eagle.....	1 60
	853	Material.....	Mosher Manufacturing Co.....	12 85



## Textile Building Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Dec. 12, 1904	854	Material.....	The Wesco Supply Co.....	\$ 50 79
	855	Expenses.....	T. Haswell.....	6 85
	856	Plumbing.....	Hill Bros. & Co.....	475 00
	885	Freight.....	I. & G. N. Ry.....	340 28
	890	Expenses.....	Bryan Eagle.....	4 25
Dec. 28, 1904	903	Labor.....	M. Davis et al.....	74 30
Jan. 10, 1905	1007	Freight.....	H. & T. C. Ry.....	68 02
	1008	Freight.....	I. & G. N. Ry.....	1 19
Jan. 17, 1905	1072	Material.....	J. A. Myers.....	10 85
Jan. 31, 1905	1325	Machinery.....	Gen. Fire Extinguisher Co.....	167 08
	1326	Machinery.....	Jones & Longheim.....	466 60
Feb. 1, 1905	1437	Freight.....	I. & G. N. Ry.....	2 89
	1438	Freight.....	I. & G. N. Ry.....	1 32
	1439	Freight.....	I. & G. N. Ry.....	139 50
	1440	Freight.....	I. & G. N. Ry.....	11 81
	1441	Freight.....	I. & G. N. Ry.....	4 32
	1442	Freight.....	I. & G. N. Ry.....	90
	1443	Freight.....	I. & G. N. Ry.....	4 29
	1444	Freight.....	H. & T. C. Ry.....	1 16
	1445	Freight.....	H. & T. C. Ry.....	50
	1446	Freight.....	H. & T. C. Ry.....	1 48
	1447	Expense.....	J. S. Wier.....	4 05
	1448	Labor.....	C. A. Carson.....	6 00
	1449	Labor.....	H. C. Ivey et al.....	41 10
	1450	Labor.....	H. C. Ivey et al.....	42 30
	1451	Labor.....	E. Crawford.....	1 00
	1452	Labor.....	A. C. Kock et al.....	55 10
	1453	Labor.....	A. C. Kock et al.....	50 85
	1454	Material.....	G. H. & Webb.....	36 16
	1455	Expenses.....	Bryan Eagle.....	4 25
Feb. 20, 1905	1546	Material.....	F. W. Heitman & Co.....	16 46
	1547	Material.....	Cole Hardware Co.....	1 35
	1548	Expense.....	Bryan Eagle.....	2 25
	1549	Material.....	Wesco Supply Co.....	33 35
	1550	Material.....	Ann. Dist. Steam Co.....	1 18
	1551	Material.....	Peden Iron and Steel Co.....	2 63
	1552	Material.....	Peden Iron and Steel Co.....	43 40
	1609	Machinery.....	Ft. Wayne Electric Works.....	839 18
	1610	Machinery.....	Schultz Beltingworks Co.....	400 60
	1612	Machinery.....	Cohoes Iron F'dy and Machin'y Co.....	550 00
	1612	Machinery.....	General Fire Esting. Co.....	64 65
	1613	Machinery.....	General Fire Esting. Co.....	772 00
28, 1905	1678	Freight.....	I. & G. N. Ry. Co.....	151 50
	1679	Freight.....	I. & G. N. Ry. Co.....	1 49
	1680	Machinery.....	I. & G. N. Ry. Co.....	70
	1681	Freight.....	H. & T. C. Ry. Co.....	32 11
	1682	Labor.....	Geo. Pierce.....	5 50
	1683	Labor.....	A. C. Koch et al.....	60 35
	1798	Material.....	F. W. Heitmann & Co.....	10 11
	1799	Material.....	F. W. Heitmann & Co.....	11 20
	1800	Expenses.....	Electric Light and Ice Co.....	2 53
	1801	Expenses.....	Clarke & Courts.....	32 15
	1802	Material.....	Schultz Melting Co.....	10 52
	1803	Material.....	The Harrison Safety Boiler Co.....	16 00
	1804	Material.....	Peden Iron and Steel Co.....	4 95
	1805	Material.....	Peden Iron and Steel Co.....	20 62
	1806	Expense.....	T. Hassell.....	11 00
	1807	Expense.....	G. H. & Webb.....	1 60
	1808	Expense.....	G. H. & Webb.....	7 95
Mar. 12, 1905	1912	Equipment.....	L. F. Battle.....	12 95
	1913	Engine.....	J. H. Suber.....	15 00
	1914	Labor.....	S. F. Farley et al.....	58 40
	1915	Labor.....	S. F. Farley et al.....	78 40
	1916	Labor.....	A. C. Kock et al.....	50 30
	1917	Labor.....	Tom Hudson.....	4 50
	1918	Freight.....	H. & T. C. Ry. Co.....	84
	1919	Expense.....	W. C. Boyett.....	2 00
	1920	Expense.....	F. W. Heitmann & Co.....	8 45
	1921	Expense.....	F. T. Foley.....	35
	1922	Material.....	Wetters & Son.....	4 50
	1923	Freight.....	I. & G. N. Ry. Co.....	8 11
	1924	Material.....	Hartwell Iron Works.....	10 25
16, 1905	1959	Machinery.....	C. & K. Loom Works.....	148 50
	1960	Machinery.....	C. & K. Loom Works.....	120 16
	1961	Machinery.....	Curtis & Marble Machine Co.....	623 00
	1962	Machinery.....	Duncan Hobson Electric Co.....	85 86
	1963	Contract.....	G. H. & Webb.....	1,271 75

## Textile Building Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Mar. 20, 1905	2027	Machinery.....	T. O. Envistee & Co.....	\$ 175 00
	2028	Machinery.....	Gen. Fire Ex. Co.....	700 00
	2050	Machinery.....	I. & G. N. Ry.....	6 00
	2051	Machinery.....	I. & G. N. Ry.....	117 61
	2052	Freight.....	I. & G. N. Ry Co.....	23 54
	2 53	Labor.....	W. Richards.....	1 00
	2054	Labor.....	A. Koch et al.....	25 25
	2055	Labor.....	W. Davis.....	1 00
	2056	Sand.....	J. T. Ramsay.....	3 00
	2057	Expense.....	Wells Fargo Express.....	2 35
Apr. 10, 1905	2209	Material.....	Bering Cortes Hardware Co.....	9 00
	2210	Expense.....	Bryan Eagle.....	2 15
	2279	Freight.....	I. & G. N. Ry Co.....	33 95
	2280	Freight.....	I. & G. N. Ry Co.....	101 38
	2281	Labor.....	A. C. Koch et al.....	83 12
	2282	Freight.....	Wells Fargo Express.....	2 60
	2283	Freight.....	H. & T. C. Ry.....	8 43
	2373	Machinery.....	General Electric Co.....	1,431 45
	2374	Machinery.....	Saco & Pettie Machine Shops.....	284 78
	2375	Machinery.....	C. & K. Loom Works.....	118 87
May 1, 1905	2600	Labor.....	A. C. Kocke et al.....	27 47
	2601	Labor.....	A. C. Kocke et al.....	39 50
	2602	Labor.....	A. C. Kocke et al.....	27 25
	2603	Labor.....	George Price.....	8 50
	2604	Freight.....	I. & G. N. Ry. Co.....	23 74
	2605	Freight.....	H. & T. C. Ry. Co.....	3 05
	2606	Freight.....	H. & T. C. Ry. Co.....	1 41
	2607	Freight.....	H. & T. C. Ry. Co.....	1 45
	2608	Freight.....	H. & T. C. Ry. Co.....	1 45
May 11, 1905	2769	Labor.....	J. B. Bagley.....	100 00
	2771	Machinery.....	Amn. Vulcanized Tex. Co.....	87 00
	2772	Machinery.....	Duncan Hobson Elec. Co.....	55 78
	2773	Machinery.....	Caldwell & Sampson.....	66 69
	2774	Machinery.....	Charlotte Supply Co.....	37 89
	2775	Machinery.....	Brown & Sharp Mfg. Co.....	36 75
	2776	Cotton.....	Howell Bros.....	108 86
	2777	Material.....	Cole Hardware Co.....	14 49
	2778	Material.....	Bonham Cotton Mills.....	2 50
	2779	Material.....	F. Jones & Co.....	1 22
	2780	Material.....	G. H. & Webb.....	9 58
	2781	Material.....	G. H. & Webb.....	19 68
June 1, 1905	2904	Freight.....	H. & T. C. Ry. Co.....	1 15
	2905	Freight.....	I. & G. N. Ry. Co.....	16 53
	2906	Freight.....	I. & G. N. Ry Co.....	1 89
	2907	Freight.....	I. & G. N. Ry Co.....	1 55
	2908	Freight.....	I. & G. N. Ry Co.....	16 58
	2909	Freight.....	I. & G. N. Ry. Co.....	3 60
	2910	Express.....	Wells Fargo Express Co.....	4 35
	2911	Express.....	Pacific Express Co.....	4 50
	2912	Labor.....	W. J. Andrews et al.....	52 00
	2913	Labor.....	W. J. Andrews et al.....	27 28
	2914	Expense.....	W. C. Boyett.....	2 00
	2915	Expense.....	Western Union Telegraph Co.....	1 20
19, 1905	3054	Labor.....	J. W. Ramsay et al.....	17 37
	3055	Labor.....	P. B. Casey et al.....	5 43
	3056	Freight.....	H. & T. C. Ry. Co.....	2 78
	3057	Expense.....	Pacific Express Co.....	75
	3058	Labor.....	W. J. Andrews et al.....	80 75
	3062	Labor.....	J. B. Bagley.....	100 00
	3063	Expense.....	Wells Fargo Express Co.....	9 80
	3064	Expense.....	J. S. Wier.....	3 15
	3065	Labor.....	W. J. Andrews et al.....	60 62
	3106	Expense.....	H. & B. Amn. Mach. Co.....	176 95
	3107	Expense.....	J. W. Gooch & Co.....	55 00
	3108	Machinery.....	J. Royle & Son.....	90 50
	3109	Material.....	D. A. Rompkins & Co.....	25 19
	3110	Expense.....	James & Castles.....	14 40
30, 1905	3259	Labor.....	J. B. Bagley.....	16 67
	3260	Expense.....	J. S. Wier.....	8 10
	3261	Labor.....	G. Pierce.....	1 80
	3262	Freight.....	I. & G. N. Ry. Co.....	17 30
	3263	Express.....	Pacific Express Co.....	8 00
July 10, 1905	3277	Material.....	Louisville Cotton Mills.....	4 93
	3278	Material.....	Charlotte Supply Co.....	8 25
	3279	Material.....	Charlotte Supply Co.....	2 92
	3280	Material.....	U. S. Bobbin and Shuttle.....	128 30
	3281	Material.....	General Electric Co.....	46 40

## Textile Building Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
July 10, 1905	3282	Material.....	Lord & Nagle.....	\$ 1 50
	3283	Material.....	John Doyle & Sons.....	27 50
	3284	Material.....	Wesco Supply Co.....	76 42
	3285	Material.....	Duncan Hobson Electric Co.....	14 29
	3286	Material.....	Blum Hardware Co.....	3 25
	3287	Material.....	Roanoke Mills.....	3 70
	3288	Material.....	G. S. Parker.....	46 88
	3289	Material.....	G. S. Parker.....	2 15
	3290	Material.....	J. A. Myers.....	2 70
	3291	Material.....	Cole Hardware Co.....	80
	3292	Material.....	Cole Hardware Co.....	11 75
	3293	Material.....	T. Haswell.....	26 60
	3294	Material.....	M. H. James.....	75
	3295	Material.....	C. J. Gorzycki.....	12 50
	3296	Material.....	G. H. & Webb.....	36 55
	3297	Material.....	Subsistence Dept.....	5 35
	3510	Expense.....	Howell Bros.....	3 35
	3523	Expense.....	F. T. Foley.....	1 50
	3524	Labor.....	W. J. Andrews et al.....	29 50
Aug. 16, 1905	3688	Material.....	Amn. Supply Co.....	46 60
	3689	Material.....	The Whitin Mach'y Works.....	86 50
	3690	Material.....	E. H. Stafford Mfg. Co.....	30 80
	3692	Expense.....	W. P. Oil Co.....	60
	3693	Expense.....	Webb Bros.....	5 09
	3694	Expense.....	Subsistence Dept.....	3 17
	3695	Freight.....	I. & G. N. Ry. Co.....	20 08
	3696	Freight.....	I. & G. N. Ry. Co.....	5 28
28. 1905	3761	Material.....	Caldwell & Lampkin.....	18 75
	3927	Freight.....	I. & G. N. Ry. Co. (No. 496).....	05
	3928	To correct No. 2055.....	W. Davis.....	90
Total.....				\$ 23,972 80

Balance of appropriation of March, 1903..... \$ 23,961 13

Overcheck..... 11 67

\$ 23,972 80

## Treasury Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 4, 1904	239	Farm.....	F. W. Schulenburg.....	\$ 82 50
	240	Farm.....	Texas Seed and Floral Co.....	16 75
	241	Farm.....	Texas Seed and Floral Co.....	1 85
	243	Farm.....	W. B. Grice.....	1 90
	244	Farm.....	W. B. Grice.....	4 25
	245	Farm.....	J. A. Myers.....	1 40
	246	Farm.....	J. A. Myers.....	31 48
	247	Farm.....	J. A. Myers.....	16 75
	248	Farm.....	J. A. Myers.....	8 25
	249	Farm.....	J. A. Myers.....	8 50
	250	Farm.....	Howell Bros.....	45 80
	251	Farm.....	J. T. Hanway.....	4 65
	252	Farm.....	J. T. Hanway.....	1 95
	253	Farm.....	Am. Berkshire Association.....	1 00
	254	Farm.....	C. C. Calhoun.....	3 60
	255	Farm.....	B. A. Hartman.....	6 70
	256	Farm.....	B. A. Hartman.....	2 40
	257	Farm.....	F. W. Woods.....	42 50
	258	Farm.....	Amn. Poland China Record.....	1 00
	259	Farm.....	W. P. Oil Co.....	7 70
	260	Farm.....	W. P. Oil Co.....	14 31
	261	Farm.....	E. C. Harder.....	2 53
	262	Farm.....	Ben S. Reed.....	1 10



## Treasury Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Nov. 4 1904	263	Farm.....	L. A. Plasek.....	\$ 2 60
	264	Farm.....	W. R. Harrison & Co.....	138 40
Nov. 10, 1904	296	Farm.....	Grice & Edmonds.....	7 00
	297	Farm.....	H. G. Youngblood et al. ....	100 75
	298	Farm.....	A. Smoot et al.....	161 60
	299	Farm.....	G. W. Reese.....	15 00
Nov. 15, 1904	345	Farm.....	W. M. Carroll.....	3 75
	346	Farm.....	Sam Murray.....	24 75
	347	Farm.....	E. D. Graham.....	12 50
	348	Farm.....	E. D. Graham.....	13 25
	349	Farm.....	E. D. Graham.....	10 85
	350	Farm.....	H. & T. C. Ry Co.....	9 60
	351	Farm.....	H. & T. C. Ry Co.....	1 71
	352	Farm.....	J. R. Robertson.....	15 95
	353	Farm.....	S. J. Jackson.....	3 00
	354	Farm.....	B. H. Royall et al.....	3 50
	355	Farm.....	J. H. Wehrman.....	13 20
	356	Farm.....	L. I. De Hart et al.....	16 50
	357	Farm.....	H. G. Youngblood et al.....	9 15
	358	Farm.....	B. Wier.....	6 00
	359	Farm.....	J. H. Royall.....	25 00
	360	Farm.....	F. D. Carson et al.....	15 50
	361	Farm.....	John Ashton.....	17 50
	362	Farm.....	J. R. Robertson.....	7 15
	363	Farm.....	J. D. Gammon.....	7 65
Nov. 22, 1904	473	Farm.....	J. R. Robertson.....	125 00
24, 1904	506	Farm.....	C. Martin.....	8 00
	507	Farm.....	Wells Fargo Express Co.....	11 25
	508	Farm.....	Wells Fargo Express Co.....	30
	509	Farm.....	F. Olynik.....	4 50
Nov. 28, 1904	586	Farm.....	H. G. Youngblood et al.....	218 25
	587	Farm.....	J. F. Cloud.....	27 50
	723	Salary.....	J. R. Robertson.....	125 00
Dec. 12, 1904	794	Farm.....	A. Smoot et al.....	161 00
	834	Farm.....	Peden Iron and Steel Co.....	13 20
	835	Agriculture.....	The Bavier Novelty Co.....	2 00
	836	Agriculture.....	J. M. Vance.....	2 40
	837	Agriculture.....	W. P. Oil Co.....	7 68
Dec. 28, 1904	888	Farm.....	Bryan Eagle.....	6 50
	899	Farm.....	Bryan Cotton Oil Co.....	330 00
	902	Farm.....	J. A. Moore.....	83 75
	958	Salary.....	J. R. Robertson.....	125 00
Jan. 5, 1905	966	Farm.....	W. F. Olliver (mules).....	380 00
6, 1905	967	Farm.....	Geo. Adams.....	150 00
10, 1905	1009	Farm.....	J. O. Chance.....	68 70
	1010	Farm.....	L. Turner.....	13 00
	1011	Farm.....	H. G. Youngblood et al.....	192 05
	1012	Farm.....	A. Smoot et al.....	118 00
	1013	Farm.....	G. Marsh.....	19 00
	1014	Farm.....	G. Fry.....	2 95
	1015	Farm.....	A. J. Murray.....	1 00
	1016	Farm.....	F. Davis.....	7 00
	1017	Farm.....	Dan Ward.....	9 00
	1018	Farm.....	Wells Fargo Express.....	35
17, 1905	1073	Farm.....	J. A. Myers.....	350 54
	1074	Farm.....	J. A. Myers.....	24 40
	1075	Farm.....	J. A. Myers.....	90 83
	1076	Farm.....	G. H. & Webb.....	24 00
	1077	Farm.....	G. H. & Webb.....	23 29
	1078	Farm.....	G. H. & Webb.....	37 77
	1079	Farm.....	G. H. & Webb.....	13 73
	1231	Farm.....	American Berkshire Association.....	2 00
	1232	Farm.....	American Berkshire Association.....	1 00
	1233	Farm.....	Zinner Disinfecting Co.....	12 50
	1234	Farm.....	G. S. Parker.....	26 32
	1235	Farm.....	A. W. Buchanan.....	30 80
	1237	Farm.....	American Poland China Record.....	2 00
	1238	Farm.....	Henry & Brogdon.....	55 00
	1239	Farm.....	E. C. Harder & Co.....	45 88
31, 1905	1320	Salary.....	J. R. Robertson.....	125 00
Feb. 7, 1905	1377	Farm.....	H. G. Youngblood et al.....	191 70
	1378	Farm.....	A. Smoot et al.....	154 00
	1379	Farm.....	H. & T. C. Ry.....	4 22
	1380	Farm.....	R. Crawford.....	2 00
	1381	Farm.....	Wells Fargo Express.....	30
	1382	Farm.....	I. & G. N. Ry.....	1 04
	1383	Farm.....	H. & T. C. Ry.....	25

## Treasury Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Feb. 7, 1905	1384	Farm.....	H. G. Youngblood et al.....	\$ 159 20
	1385	Farm.....	A. Smoot et al.....	102 95
	1386	Farm.....	S. J. Jackson.....	4 00
	1387	Farm.....	Grice & Edmonds.....	2 00
	1388	Farm.....	T. E. Thweatt.....	45 00
	1389	Farm.....	J. J. Raspin.....	12 50
	1458	Farm.....	Bryan Cotton Oil Co.....	170 50
	1459	Farm.....	H. C. Robinson.....	3 00
	1684	Farm.....	J. Turak et al.....	12 00
	1685	Farm.....	H. & T. C. Ry.....	1 40
	1686	Contingent.....	Southwestern Tel. and Tel. Co.....	4 75
28, 1905	1779	Salary.....	J. R. Robinson.....	125 00
	1896	Freight.....	I. & G. N. Ry.....	18 70
	1897	Freight.....	I. & G. N. Ry.....	7 10
	1898	Corn.....	A. E. & Evans.....	150 00
	1899	Expense.....	Western Union Telegraph Co.....	25
	1900	Labor.....	H. G. Youngblood et al.....	206 50
	1901	Labor.....	A. Smoot.....	158 00
Mar. 20, 1905	2025	Cotton seed meal.....	Bryan Cotton Oil Co.....	159 50
	2042	Farm.....	I. & G. N. Ry.....	1 39
31, 1905	2165	Salary.....	J. R. Robertson.....	125 00
	2174	Cotton seed meal.....	W. C. Boyett.....	292 50
April 10, 1905	2253	Farm.....	American Yorkshire Club.....	2 25
	2254	Corn.....	Anderson & Evans Co.....	23 25
	2255	Farm.....	J. C. Blunt.....	61 56
20, 1905	2421	Farm.....	H. C. Kyle.....	10 00
	2422	Farm.....	American Poland China Record.....	2 00
	2423	Farm.....	Holstein F. A. of America.....	4 25
	2424	Farm.....	American Berkshire Assn.....	3 00
	2425	Farm.....	American Yorkshire Club.....	8 25
	2426	Farm.....	B. S. Reed.....	75
	2427	Farm.....	D. Zimmerman.....	4 50
	2428	Farm.....	J. T. Hanway.....	95
	2429	Farm.....	Henry & Brogdon.....	1 10
	2430	Farm.....	E. C. Harder & Co.....	2 60
	2431	Farm.....	G. S. Parker.....	31 85
	2432	Farm.....	F. W. Schulenburg.....	3 00
30, 1905	2576	Salary.....	J. R. Robertson.....	125 00
May 1, 1905	2582	Freight.....	I. & G. N. Ry.....	1 22
	2583	Labor.....	H. C. Ivey.....	18 00
	2584	Labor.....	A. Smoot et al.....	175 45
	2585	Labor.....	H. G. Youngblood et al.....	255 25
	2586	Labor.....	A. Smoot et al.....	156 75
	2587	Labor.....	H. G. Youngblood et al.....	283 25
	2588	Labor.....	A. Kocke.....	32 50
	2589	Seed.....	Pete Krolzycke.....	29 15
	2590	Wood.....	J. H. Suber.....	23 12
	2591	Freight.....	I. & G. N. Ry.....	18 70
	2592	Freight.....	H. & T. C. Ry.....	14 40
	2677	Corn.....	W. G. Thomas.....	188 30
May 11, 1905	2719	Farm.....	Canning Package Mfg. Co.....	69 19
30, 1905	2872	Salary.....	J. R. Robertson.....	125 00
	2942	Labor.....	E. J. Gray.....	12 35
	2943	Freight.....	H. & T. C. Ry. Co.....	32 34
June 3, 1905	2972	Labor.....	H. G. Youngblood et al.....	287 25
	2973	Labor.....	A. Smoot et al.....	149 45
30, 1905	3231	Salary.....	J. R. Robertson.....	125 00
	3246	Stock service.....	H. O. Knovlauch.....	8 00
	3247	Corn.....	A. McKlnzie.....	257 05
	3254	Express.....	Wells Fargo Express Co.....	4 90
	3265	Freight.....	H. & T. C. Ry. Co.....	14 40
	3266	Wood.....	J. T. Atkins.....	2 00
	3267	Labor.....	M. Jourdan.....	13 00
	3268	Expense.....	Holstein Friesian Assn.....	5 00
	3269	Labor.....	R. Finley et al.....	38 25
July 10, 1905	3401	Labor.....	W. J. De Hart.....	22 00
	3402	Labor.....	L. De Hart.....	12 10
	3403	Ostern.....	Reichardt & Seelhurst.....	35 00
	2504	Farm.....	Stevenson Machine and Repair Co.....	8 10
	2505	Farm.....	J. T. Hanway.....	54 40
	2506	Farm.....	W. P. Oil Co.....	32 89
	2507	Farm.....	E. C. Harder & Co.....	107 55
	2508	Farm.....	E. C. Harder & Co.....	21 25
	2509	Farm.....	E. C. Harder & Co.....	13 45
Aug. 15, 1905	3515	Salary.....	J. R. Robertson.....	125 00
	3631	Labor.....	H. G. Youngblood et al.....	211 80
	3632	Labor.....	A. Smoot et al.....	139 00

## Treasury Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Aug. 15, 1905	3633	Labor.....	H. G. Youngblood et al .....	\$ 269 25
	3634	Labor.....	A. Smoot et al.....	157 00
23, 1905	3733	Labor.....	P. Carson.....	14 50
	2734	Labor.....	B. Finley.....	7 20
	3735	Advertising .....	Texas Farm and Ranch.....	14 70
28, 1905	3762	Farm.....	Creamery Package Co.....	13 48
31, 1905	3800	Salary.....	J. R. Robertson.....	125 00
	3856	Labor.....	L. Parks.....	15 00
	3843	Insurance .....	G. A. Adams.....	150 00
Oct. 4, 1905	17	Creamery.....	J. H. Suber.....	20 35
	133	Salary.....	J. R. Robertson.....	125 00
10, 1905	216	Expense.....	J. A. Myers.....	5 35
	217	Expense.....	J. A. Myers.....	17 25
	218	Expense.....	J. A. Myers.....	57 46
	219	Expense.....	J. A. Myers.....	75 84
	220	Expense.....	J. A. Myers.....	127 70
	221	Expense.....	J. A. Myers.....	77 56
	222	Expense.....	J. A. Myers.....	60 91
	223	Expense.....	J. A. Myers.....	43 51
	224	Expense.....	W. P. Oil Co.....	2 30
	225	Expense.....	W. P. Oil Co.....	5 75
	226	Expense.....	W. P. Oil Co.....	2 80
	227	Expense.....	W. P. Oil Co.....	6 25
	228	Expense.....	W. P. Oil Co.....	4 60
	229	Expense.....	Creamery Package Mfg. Co.....	3 20
	230	Expense.....	J. T. Hanway.....	18 50
	231	Expense.....	J. T. Hanway.....	6 90
	232	Expense.....	J. T. Hanway.....	30
	233	Expense.....	E. J. Fountain & Co.....	56 10
	234	Expense.....	Bavier Novelty Co.....	2 00
	235	Expense.....	A. W. Buchanan.....	4 65
	236	Expense.....	G. H. & Webb.....	62 08
	237	Expense.....	G. H. & Webb.....	9 82
	238	Expense.....	Kitsulman Bros.....	40 17
	239	Expense.....	Carson Sewall & Co.....	17 55
	240	Expense.....	Carson Sewall & Co.....	5 67
	241	Expense.....	Carson Sewall & Co.....	17 01
	242	Expense.....	Howell Bros.....	8 65
	243	Expense.....	Howell Bros.....	33 92
	244	Expense.....	G. S. Parker.....	9 12
	245	Expense.....	Munday & Moleman.....	11 00
	246	Expense.....	Amn. Yorkshire Club.....	4 00
	247	Expense.....	Amn. Berkshire Assn.....	3 00
	248	Expense.....	Amn. Jersey Cattle Club.....	15 50
	249	Expense.....	Cole Hardware Co.....	48 15
	250	Expense.....	Cole Hardware Co.....	40
	251	Expense.....	Webb Bros.....	2 15
	252	Expense.....	E. C. Harder & Co.....	12 00
	253	Expense.....	E. C. Harder & Co.....	17 90
Oct. 31, 1905	613	Salary.....	J. R. Robertson.....	125 00
	688	Farm.....	J. H. Suber.....	57 00
Nov. 1, 1905	726	Farm.....	Pacific Express.....	4 45
	752	Labor.....	A. Smoot et al.....	136 20
	753	Labor.....	Grant Bland et al.....	227 95
Nov. 9, 1905	792	Labor.....	C. A. Carson et al.....	131 54
	793	Labor.....	K. Foster.....	6 16
	794	Labor.....	O. Taylor.....	4 75
	795	Labor.....	Pacific Express.....	1 00
	811	Farm.....	Munger Oil and Cotton Co.....	657 15
Nov. 14, 1905	891	Farm.....	Stevenson Mach. and Repair Co.....	1 75
	892	Farm.....	Stevenson Mach. and Repair Co.....	38 50
	893	Farm.....	Stevenson Mach. and Repair Co.....	9 00
	894	Feed.....	E. C. Harder & Co.....	138 70
	895	Feed.....	Edge Bros.....	26 50
Nov. 30, 1905	1247	Labor.....	C. A. Carson et al.....	148 25
	1075	Salary.....	J. R. Robertson.....	125 00
	1248	Labor.....	A. Smoot et al.....	215 00
	1249	Freight.....	I. & G. N. Ry. Co.....	24 64
	1250	Express.....	Pacific Express.....	2 05
	1251	Freight.....	H. & T. C. Ry.....	60 00
	1252	Freight.....	H. & T. C. Ry.....	7 31
Dec. 22, 1905	1376	Farm.....	Bryan Eagle.....	3 40
	1377	Farm.....	G. H. & Webb.....	5 25
	1378	Farm.....	Waters Pierce Oil Co.....	6 48
	1379	Expense.....	Bryan Ice and Storage Co.....	88
	1380	Expense.....	American Yorkshire Club.....	10 25
	1381	Feed.....	E. C. Harder & Co.....	14 59



## Treasury Account- continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Dec. 22, 1906	1382	Feed.....	F. C. Harder & Co.....	\$ 27 00
	1383	Labor.....	R. J. Evans.....	2 00
	1384	Expense.....	W. R. Harrison & Co.....	8 82
	1385	Expense.....	American Berkshire Association.....	1 25
	1386	Expense.....	A. W. Buchanan & Co.....	3 10
Dec. 26, 1905	1436	Farm.....	Southwestern T. & T. Co.....	2 25
	1437	Expenses.....	W. T. Peel.....	9 15
	1438	Expenses.....	Creamery Package Mfg. Co.....	12 55
	1440	Expenses.....	Lone Star Oil Co.....	10 35
	1441	Expenses.....	American Poland China Record.....	3 00
	1442	Expenses.....	Gulf Refining Co.....	3 55
	1443	Insurance.....	J. A. Moore.....	83 75
	1444	Expense.....	G. H. & Webb.....	67 40
	1445	Expense.....	E. J. Fountain & Co.....	6 15
	1446	Expense.....	Bryan Ice and Storage Co.....	88
	1447	Expense.....	F. W. Heitman & Co.....	1 79
	1448	Expense.....	M. H. James.....	3 00
	1449	Expense.....	J. A. Myers.....	7 65
	1450	Expense.....	G. A. Adams.....	75 00
	1451	Farm.....	Electric light and ice.....	4 06
Dec. 30, 1905	1575	Salary.....	J. R. Robertson.....	125 00
Jan. 8, 1906	1728	Farm.....	Am. Jersey Cattle Club.....	15 50
	1729	Farm.....	Am. Yorkshire Club.....	9 00
	1730	Farm.....	G. H. & Webb.....	33 85
	1731	Farm.....	E. C. Harder.....	40 95
	1732	Farm.....	Henry & Brogden.....	11 00
	1733	Farm.....	U. S. Battery Co.....	200 25
	1734	Farm.....	J. A. Myers.....	74 82
	1735	Farm.....	J. A. Myers.....	43 44
	1758	Farm.....	Stevenson Mach. and Rep. Co.....	26 60
	1785	Farm.....	G. H. & Webb.....	14 00
	1786	Farm.....	G. H. & Webb.....	12 84
	1787	Farm.....	G. L. Burgass.....	50 00
Jan. 11, 1906	1853	Farm.....	J. A. Myers.....	30 87
	1854	Farm.....	G. H. & Webb.....	9 75
	1855	Farm.....	Carson, Sewall & Co.....	272 25
Jan. 20, 1906	2002	Farm.....	Waters Pierce Oil Co.....	6 00
	2072	Farm.....	Stevenson Mach. and Rep. Co.....	66 10
	2073	Labor.....	C. A. Carson et al.....	166 95
	2074	Labor.....	A. Smoot et al.....	131 47
Jan. 25, 1906	2075	Freight.....	I. & G. N. Ry. Co.....	16 92
	2123	Corn.....	W. G. Thomas.....	225 61
	2125	Feed.....	Planters Oil Co.....	254 40
	2126	Exchange.....	First National Bank.....	54
Feb. 2, 1906	2352	Freight.....	I. & G. N. Ry. Co.....	12 30
	2353	Expense.....	First National Bank.....	54
	2354	Freight.....	H. & T. C. Ry. Co.....	22 10
	2355	Freight.....	H. & T. C. Ry. Co.....	101 75
Feb. 2, 1906	2384	Expense.....	Howell Bros.....	180 14
	2385	Expense.....	Howell Bros.....	35 67
	2386	Expense.....	Howell Bros.....	9 50
	2387	Feed.....	E. C. Harder.....	6 30
	2388	Feed.....	E. C. Harder.....	55 74
	2389	Expense.....	Cole Hardware Co.....	21 91
	2390	Farm.....	K. & B. Mfg. Co.....	1 75
10, 1906	2490	Labor.....	A. Smoot et al.....	125 25
	2492	Labor.....	C. A. Carson et al.....	169 30
15, 1906	2608	Expense.....	J. A. Myers.....	29 65
20, 1906	2644	Expense.....	Consumers Cotton Oil Co.....	90 20
	2663	Expense.....	A. Shift.....	1 15
Mar. 11, 1906	2811	Feed.....	W. C. Boyett.....	243 19
	2907	Freight.....	H. & T. C. Ry. Co.....	22 49
15, 1906	3044	Farm.....	M. H. James.....	2 75
	3045	Farm.....	G. H. & Webb.....	1 20
	3046	Farm.....	Henry & Brogden.....	1 40
	3047	Farm.....	Howell Bros.....	87 50
	3048	Farm.....	Southwestern Tel. and T. Co.....	90
	3049	Farm.....	Munday & Moehlman.....	2 00
	3101	Labor.....	C. A. Carson et al.....	159 00
	3102	Labor.....	A. Smoot et al.....	108 58
17, 1906	3139	Machinery.....	International Harvester Co.....	95 00
	3141	Bull.....	D. & A. Oppenheimer.....	50 20
	3142	Farm.....	G. H. & Webb.....	7 80
30, 1906	3368	Freight.....	I. & G. N. Ry. Co.....	10 14
Apr. 17, 1906	3515	Feed.....	Calloway Grain Oom. Co.....	44 97
	3516	Labor.....	A. Mandle.....	34 10
	3517	Labor.....	A. Smoot et al.....	72 50

## Treasury Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Apr. 17, 1906	3518	Labor.....	C. A. Carson.....	\$ 215 75
	3519	Freight.....	H. & T. C. Ry. Co.....	18 87
	3520	Freight.....	I. & G. N. Ry. Co.....	7 99
	3598	Oil.....	Waters Pierce Oil Co.....	26 57
	3599	Oil.....	Waters Pierce Oil Co.....	51 97
30, 1906	3724	Farm.....	W. S. Kirby Co.....	7 50
May 10, 1906	3914	Farm.....	E. J. Jenkins.....	6 00
	3979	Farm.....	National Creamery Supply Co.....	37 75
	3980	Farm.....	Subsistence account.....	1 40
	3981	Farm.....	F. W. Heitman & Co.....	3 00
	3982	Farm.....	Sanger Bros.....	9 00
	3983	Farm.....	E. J. Fountain & Co.....	25
	3984	Farm.....	J. B. Ford & Co.....	8 03
	3985	Farm.....	J. A. Myers.....	6 00
	3986	Farm.....	Plumbing account.....	50
	3987	Farm.....	Plumbing account.....	2 20
	3988	Farm.....	Creamery Package Mfg. Co.....	7 20
	3989	Farm.....	Creamery Package Mfg. Co.....	75 01
	3990	Farm.....	C. B. Richter.....	21 50
	3991	Freight.....	H. & T. C. Ry.....	10 40
	3992	Labor.....	J. E. Huettig et al.....	34 21
	3993	Labor.....	J. A. Frederick et al.....	223 55
	3994	Labor.....	A. Smoot et al.....	88 60
	3995	Labor.....	C. W. Boyce.....	10 30
	3996	Labor.....	H. Nicholson.....	2 00
May 12, 1905	4104	Farm.....	W. C. Boyett.....	150 00
	4105	Farm.....	Munday & Moehlman.....	1 10
	4106	Farm.....	Howell Bros.....	80 01
	4107	Farm.....	J. A. Myers.....	21 70
31, 1906	5308	Freight.....	H. & T. C. Ry.....	36 63
	5309	Express.....	Wells Fargo Express.....	35
	4210	Dairy.....	Wells Fargo Express.....	35
30, 1906	4241	Farm.....	Munday & Moehlman.....	2 00
June 7, 1906	4380	Farm.....	Carson, Sewell & Webb.....	86 24
	4381	Farm.....	E. C. Harder & Co.....	5 00
	4382	Farm.....	Fountain Bros.....	14 00
	4383	Farm.....	Sanders Publishing Co.....	4 00
	4384	Farm.....	E. C. Harder & Co.....	253 05
	4436	Creamery.....	W. L. Atkins.....	7 50
	443	Creamery.....	W. L. Atkins.....	12 55
	4438	Creamery.....	W. L. Atkins.....	7 50
	4439	Creamery.....	Wells Fargo Express.....	30
	4440	Creamery.....	H. & T. C. Ry.....	25
	4441	Labor.....	A. Smoot et al.....	124 00
	4472	Express.....	Wells Fargo Express.....	75
June 11, 1906	4505	Labor.....	W. J. Andrews.....	25 00
26, 1906	4587	Farm.....	Reichardt & Schulte.....	8 00
	4588	Farm.....	Southwestern Tel. and Tel. Co.....	1 40
30, 1906	4690	Labor.....	J. A. Frederick et al.....	277 10
July 7, 1906	4800	Farm.....	E. C. Harder.....	45 00
	4801	Labor.....	J. H. B. Piper et al.....	11 55
	4802	Labor.....	A. Smoot et al.....	106 85
	4803	Labor.....	H. Nicholson.....	8 00
	4804	Labor.....	M. L. Cely.....	18 00
	4805	Freight.....	I. & G. N. Ry.....	3 01
19, 1906	4938	Farm.....	Carson, Sewall & Co.....	22 69
	4939	Farm.....	G. H. & Webb.....	15 67
	4940	Farm.....	Howell Bros.....	83 84
	4941	Farm.....	American Berkshire Association.....	2 00
	4942	Farm.....	Cole Hardware Co.....	2 25
	4943	Farm.....	Wells Fargo Express.....	35
	4944	Farm.....	American Yorkshire Club.....	3 00
	4945	Farm.....	A. Finley.....	3 40
	4946	Farm.....	F. Sontag.....	2 50
	4947	Labor.....	J. A. Capps.....	4 00
24, 1906	4982	Labor.....	G. H. & Webb.....	10 30
Aug. 4, 1906	5099	Expense.....	Munday & Moehlman.....	8 25
	5090	Feed.....	W. C. Boyett.....	17 60
	5091	Feed.....	A. W. Buchanan.....	16 95
	5092	Feed.....	Munday & Moehlman.....	6 50
	5093	Feed.....	Carson, Sewall & Co.....	47 52
	5094	Feed.....	E. C. Harder & Co.....	53 00
	5095	Feed.....	Howell Bros.....	2 50
	5096	Feed.....	H. & T. C. Ry.....	28
	5097	Labor.....	D. Ward.....	9 50
	5098	Labor.....	J. A. Frederick et al.....	240 15
	5099	Labor.....	Fred Greer et al.....	70 50

## Treasury Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Aug. 4, 1906	5100	Labor.....	F. C. Green.. ..	\$ 7 20
	5101	Seed.....	E. J. Kyle.....	4 00
	5102	Dairy.....	H. Cely.....	2 50
11, 1906	5200	Insurance.....	H. C. Robinson..	150 00
20, 1906	5207	Dairy.....	H. Nixon.....	9 50
	5208	Dairy.....	A. Smoot et al.....	115 00
	5209	Dairy.....	A. Schill.....	3 00
	5210	Labor.....	J. A. Frederick et al.....	226 95
	5211	Dairy.....	J. J. Jones.....	10 30
	5212	Dairy.....	J. W. Hassell.....	3 50
	5213	Dairy.....	J. P. Atkins.....	4 19
	5214	Dairy.....	Pacific Express Co.....	35
	5215	Dairy.....	Wells Fargo Express Co.....	1 85
30, 1906	5277	Dairy.....	G. S. Parker.....	5 48
	5278	Dairy.....	Ice account.....	29 39
	5343	Dairy.....	J. W. Hassell.....	4 16
	5355	Dairy.....	H. Nixon.....	9 00
	5356	Dairy.....	A. Smoot et al.....	115 00
	5406	Feed.....	Henry & Brogdon.....	6 90
	5417	Labor.....	C. A. Carson et al.....	255 60
	5418	Dairy.....	J. J. Jones.....	17 85
	5419	Dairy.....	J. P. Atkins.....	15 67
	5431	Farm.....	Fairbanks Morse Co.....	13 04
	5432	Farm.....	J. A. Myers.....	123 05
Total.....				\$ 21,466 94

Receipts..... \$ 18,618 79

Overcheck..... 2,848 15

\$ 21,466 94

## Chemical Analysis Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Sept. 12, 1904	18	Salary.....	H. H. Harrington.....	\$ 20 83
	19	Salary.....	P. S. Tilson.....	116 66
31, 1904	234	Expense.....	E. H. Sargent & Co.....	13 66
	235	Expense.....	W. P. Oil Co.....	7 35
	236	Expense.....	Bryan Eagle.....	22 03
Nov. 4, 1904	267	Expense.....	W. P. Oil Co.....	14 31
	332	Labor.....	H. C. Ivey.....	12 00
11, 1904	333	Labor.....	C. Carson.....	23 85
	334	Labor.....	A. Lockley.....	2 60
15, 1904	335	Labor.....	W. L. Atkins.....	9 75
	336	Labor.....	H. C. Ivey.....	21 00
	337	Labor.....	H. C. Ivey.....	15 00
	338	Labor.....	H. C. Ivey.....	20 00
	339	Expense.....	H. H. Harrington.....	11 51
22, 1904	471	Salary.....	H. H. Harrington.....	20 83
	472	Salary.....	P. S. Tilson.....	116 66
24, 1904	523	Freight.....	H. & T. C. Ry. Co.....	5 05
	524	Express.....	Pacific Express Co.....	50
	525	Labor.....	W. J. Andrews.....	12 50
	526	Labor.....	George Ivey.....	7 50
	527	Expense.....	W. U. Tel. Co.....	25
	528	Freight.....	I. & G. N. Ry. Co.....	25 64
	529	Expense.....	W. F. Express Co.....	30
Dec. 12, 1904	724	Salary.....	H. H. Harrington.....	20 83
	725	Salary.....	S. E. Asbury.....	91 66
	726	Salary.....	P. S. Tilson.....	27 62
	789	Labor.....	W. J. Andrews.....	50 00
	790	Labor.....	J. Binford.....	10 00
	791	Labor.....	O. Jorden.....	12 50



## Chemical Analysis Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Dec. 12, 1904	792	Labor.....	A. E. Withers.....	\$ 26 90
	794	Freight.....	I. & G. N. Ry. Co.....	14 75
28, 1904	959	Salary.....	H. H. Harrington.....	20 83
	960	Salary.....	S. E. Asbury.....	91 66
Jan. 10, 1905	960	Labor.....	J. Binford.....	15 00
	991	Expenses.....	H. H. Harrington.....	10 00
	992	Expenses.....	W. C. Martin.....	14 00
	993	Labor.....	F. Foley.....	1 00
17, 1905	1090	Expense.....	Bryan Eagle.....	147 12
	1091	Expense.....	Bryan Eagle.....	275 13
	1092	Expense.....	Stevenson Machine and Repair Co..	22 00
31, 1905	1321	Salary.....	H. H. Harrington.....	20 83
	1322	Salary.....	S. E. Asbury.....	91 66
	1358	Janitor.....	A. Murray.....	16 90
	1359	Expense.....	W. F. Express Co.....	55
	1360	Freight.....	H. & T. C. Ry. Co.....	16 44
	1361	Freight.....	I. & G. N. Ry. Co.....	1 24
Feb. 20, 1905	1553	Supplies.....	Elmer & Amend.....	367 82
	1554	Supplies.....	Elmer & Amend.....	41 86
	1555	Supplies.....	Elmer & Amend.....	94 01
	1556	Supplies.....	Elmer & Amend.....	87 39
	1557	Expense.....	Remington Typewriter Co.....	11 00
	1558	Expense.....	Ahberne Stone Co.....	10 00
	1559	Expense.....	G. E. Stechert.....	5 00
	1560	Expense.....	W. P. Oil Co.....	37 59
	1561	Expense.....	Bryan Eagle.....	84 01
	1562	Expense.....	S. W. T. & T. Co.....	2 20
	1563	Expense.....	W. U. T. Co.....	50
	1605	Expense.....	G. S. Parker.....	25 04
	1614	Freight.....	H. & T. C. Ry. Co.....	1 79
28, 1905	1777	Salary.....	H. H. Harrington.....	20 83
	1778	Salary.....	S. E. Asbury.....	91 66
Mar. 12, 1905	1894	Janitor.....	A. Murray.....	200 00
	1895	Janitor.....	A. Murray.....	3 85
16, 1905	1932	Expense.....	The Bryan Eagle.....	139 10
	1933	Expense.....	The Bryan Eagle.....	16 00
	1934	Expense.....	The Bryan Eagle.....	117 67
	1935	Expense.....	The Bryan Eagle.....	26 21
	1936	Expense.....	The Bryan Eagle.....	6 80
	1937	Expense.....	The Bryan Eagle.....	33 11
	1938	Expense.....	M. C. Photo Supply Co.....	2 80
Mar. 16, 1905	1939	Expense.....	Waters Pierce Oil Co.....	14 31
	1940	Expense.....	Waters Pierce Oil Co.....	14 31
	1941	Expense.....	J. A. Myers.....	53 43
	1942	Expense.....	J. Bute.....	16 25
	1943	Expense.....	J. Bute.....	2 00
	1944	Expense.....	J. J. Pastoriza.....	3 24
	1945	Expense.....	Subsistence Department.....	8 56
	1946	Expense.....	Bryan Telephone Co.....	19 44
	1947	Supplies.....	Houston Drug Co.....	5 40
	1948	Expense.....	Webb Bros.....	2 20
	1949	Supplies.....	M. H. James.....	4 55
	1950	Supplies.....	Mallinchorde Chemical Works.....	9 94
	1951	Expense.....	G. E. Stechert.....	15 15
	1952	Expense.....	G. E. Stechert.....	3 70
	1953	Expense.....	W. U. Tel. Co.....	40
	1954	Expense.....	G. H. & Webb.....	2 15
	1955	Plumbing.....	Hill Bros. Co.....	140 15
	1956	Supplies.....	Elmer & Amend.....	294 03
	1957	Expense.....	Ware Bros.....	2 00
	1958	Expense.....	Ice and electric light account.....	8 20
Mar. 31, 1905	2166	Salary.....	H. H. Harrington.....	20 83
	2167	Salary.....	S. E. Asbury.....	91 66
Apr. 10, 1905	2286	Expense.....	F. T. Foley.....	5 00
	2287	Freight.....	H. & T. C. Ry.....	1 82
	2288	Expense.....	Wells-Fargo Express Co.....	45
	2289	Expense.....	Western Union Telegraph Co.....	85
	2290	Expense.....	Pacific Express Co.....	4 45
	2291	Expense.....	W. C. Boyett.....	5 00
	2292	Expense.....	W. C. Boyett.....	5 00
	2293	Expense.....	W. C. Boyett.....	5 00
20, 1905	2402	Expense.....	R. Haswell.....	11 10
	2403	Expense.....	B. S. Reed.....	1 40
	2404	Expense.....	Mistrot Bros.....	1 00
	2405	Expense.....	M. H. James.....	1 40
	2406	Expense.....	American Fertilizer.....	2 00
	2407	Expense.....	G. E. Stechert.....	4 41

## Chemical Analysis Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Apr. 20, 1905	2408	Expense.....	Peden Iron and Steel Co.....	\$ 4 25
	2409	Expense.....	Bryan Eagle.....	84 17
24, 1905	2496	Expense.....	J. T. Cruse et al.....	4 60
	2497	Expense.....	H. H. Harrington.....	34 50
	2498	Labor.....	J. Turik.....	25 00
	2499	Expense.....	F. T. Foley.....	5 00
30, 1905	2573	Salary.....	H. H. Harrington.....	20 83
	2574	Salary.....	S. E. Asbury.....	91 66
May 1, 1905	2581	Expense.....	S. E. Asbury.....	93 15
11, 1905	2704	Expense.....	J. A. Myers.....	10 47
	2705	Expense.....	Clarke & Courts.....	6 50
	2706	Expense.....	Elmer & Amend.....	6 60
	2707	Expense.....	Bryan Eagle.....	10 05
	2708	Expense.....	M. H. James.....	2 05
	2709	Expense.....	Bryan Tel. Co.....	8 00
	2710	Expense.....	W. P. Oil Co.....	21 89
	2711	Expense.....	The Piolet.....	3 00
	2712	Expense.....	J. J. Pastoriza.....	9 45
30, 1905	2866	Salary.....	H. H. Harrington.....	20 83
	2867	Salary.....	S. E. Asbury.....	91 66
June 1, 1905	2947	Labor.....	W. J. Andrews.....	32 50
	2948	Expense.....	Wells-Fargo Express.....	8 50
	2949	Library.....	W. C. Martin.....	12 00
19, 1905	3051	Expense.....	W. C. Boyett.....	5 00
	3052	Labor.....	J. Turik.....	33 33
	3053	Expense.....	W. C. Boyett.....	5 00
26, 1905	3126	Expense.....	M. H. James.....	2 85
	3127	Expense.....	G. E. Steckert & Co.....	2 99
	3128	Expense.....	Remington Typewriter Co.....	2 00
	3129	Expense.....	W. P. Oil Co.....	14 31
	3130	Expense.....	G. S. Parker.....	1 50
	3131	Expense.....	Chemical Examiner.....	3 00
	3132	Expense.....	Bryan Eagle.....	13 10
	3133	Expense.....	C. E. Jenkins.....	1 50
	3134	Expense.....	G. H. & Webb.....	3 85
	3135	Expense.....	W. T. Carter.....	4 50
	3136	Expense.....	H. Heil Chemical Co.....	20 81
	3137	Expense.....	Cole Hardware Co.....	1 00
	3138	Expense.....	Waters-Pierce Oil Co.....	12 11
	3139	Expense.....	Chem. Publishing Co.....	2 00
June 30, 1905	3228	Salary.....	H. H. Harrington.....	20 83
	3229	Salary.....	S. E. Asbury.....	91 66
	3254	Freight.....	H. & T. C. Ry.....	4 80
July 10, 1905	3309	Expense.....	Remington Typewriter Co.....	60 00
	3406	Supplies.....	A. T. Thompson.....	244 52
	3526	Expenses.....	F. T. Foley.....	5 00
	3527	Freight.....	H. & T. C. Ry.....	4 80
Aug. 15, 1905	3592	Salary.....	H. H. Harrington.....	20 83
	3593	Salary.....	S. E. Asbury.....	91 66
Aug. 23, 1905	3714	Expense.....	H. H. Harrington.....	7 52
	3715	Freight.....	I. & G. N. Ry.....	13 85
	3716	Labor.....	J. Turik.....	50 00
Aug. 28, 1905	3738	Expense.....	Bryan Eagle.....	6 00
	3739	Expense.....	Pilot.....	3 00
	3740	Expense.....	Mallinchröd Chem. Works.....	40 99
	3741	Expense.....	A. T. Thompson & Co.....	74
	3742	Expense.....	J. J. Pastoriza.....	7 00
	3743	Expense.....	J. M. Proper.....	20 00
	3744	Expense.....	T. Haswell.....	2 80
	3745	Expense.....	Subsistence Dept.....	9 02
	3746	Expense.....	W. P. Oil Co.....	14 58
	3747	Expense.....	Houston Drug Co.....	8 80
	3748	Expense.....	Bryan Eagle.....	17 62
	3749	Expense.....	G. E. Stechert Co.....	24 81
	3784	Salary.....	H. H. Harrington.....	20 83
	3785	Salary.....	S. E. Asbury.....	91 66
Aug. 21, 1905	3867	Freight.....	H. & T. C. Ry.....	33
	3906	Janitor.....	J. Turik.....	25 00
	3907	Janitor.....	W. J. Andrews.....	16 25
Oct. 4, 1905	3946	Freight.....	H. & T. C. Ry.....	6 61
	3947	Freight.....	H. & T. C. Ry.....	1 08
	3948	Express.....	Wells Fargo Express.....	1 05
	3949	Freight.....	H. & T. C. Ry.....	4 47
	134	Salary.....	S. E. Asbury.....	91 66
Oct. 17, 1905	350	Expense.....	Elec. Light and Ice Acct.....	15 00
	351	Expense.....	Globe Chem. Co.....	12 31
	352	Expense.....	J. L. Wortham.....	8 50

## Chemical Analysis Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Oct. 17, 1905	353	Expense .....	M. H. James.....	\$ 1 05
	354	Expense .....	Elec. Light and Ice Acct.....	3 96
	355	Expense .....	Chem. Engineering Pub. Co.....	3 25
	356	Expense .....	J. A. Myers.....	11 85
	357	Expense .....	Houston Drug Co.....	3 75
	358	Expense .....	Hill Bros.....	7 00
	359	Expense .....	G. E. Steckert.....	3 00
	360	Expense .....	Bryan Eagle.....	4 05
	361	Expense .....	Bryan Eagle.....	8 05
	362	Expense .....	Duncan Hobson Co.....	17
	363	Expense .....	Elmer & Amend.....	151 61
	364	Expense .....	W. P. Oil Co.....	14 31
	365	Expense .....	W. P. Oil Co.....	14 31
	366	Expense .....	Bering Mfg. Co.....	43 75
	367	Expense .....	Bering Cortes Hdw. Co.....	8 66
	368	Expense .....	Bering Cortes Hdw. Co.....	20 87
	436	Janitor.....	John Turik.....	25 00
	437	Express.....	Wells Fargo Express.....	4 25
	438	Express.....	Wells Fargo Express.....	1 85
Oct. 31, 1905	612	Salary .....	S. E. Asbury.....	91 66
	651	Supplies .....	Clarke & Courts.....	16 40
	652	Supplies .....	Houston Drug Co.....	1 96
	654	Expense .....	Hill Bros.....	5 00
	655	Expense .....	S. W. T. & T. Co.....	2 10
	656	Expense .....	T. Haswell.....	25
	657	Expense .....	Elmer & Amend.....	8 19
	658	Expense .....	W. P. Oil Co.....	30 80
	659	Expense .....	Bering Cortes Hdw. Co.....	6 72
	660	Expense .....	Bryan Eagle.....	11 65
	661	Expense .....	Bryan Eagle.....	3 47
	662	Expense .....	Bryan Eagle.....	40 50
	663	Expense .....	Bryan Eagle.....	29 60
	664	Expense .....	Bryan Eagle.....	27 75
	665	Expense .....	Bryan Eagle.....	5 48
	666	Expense .....	Bryan Eagle.....	33 25
Nov. 1, 1905	713	Freight.....	H. & T. Co.....	15 53
	714	Expense .....	Salary .....	2 75
	715	Express.....	Pacific Express.....	40
	716	Freight.....	I. & G. N. Ry.....	1 75
9, 1905	800	Expense .....	H. H. Harrington.....	8 70
	801	Express.....	Wells Fargo Express.....	30
	802	Janitor.....	J. Turik.....	25 00
11, 1905	861	Expense .....	Bryan Eagle.....	45 58
	862	Expense .....	Bryan Eagle.....	1 00
22, 1905	924	Expense .....	G. S. Parker.....	9 00
	925	Expense .....	W. P. Oil Co.....	15 12
	926	Expense .....	Clarke & Courts.....	3 90
	927	Expense .....	H. D. Taylor & Sons.....	4 50
	928	Expense .....	W. Schadt.....	2 63
	929	Expense .....	Bryan Eagle.....	24 00
	930	Expense .....	Bryan Tel. Co.....	6 00
	931	Expense .....	Bryan Eagle.....	2 50
	932	Expense .....	Bryan Eagle.....	22 05
30, 1905	1076	Salary .....	S. E. Asbury.....	91 66
	1077	Salary .....	G. S. Fraps.....	33 34
	1078	Salary .....	G. S. Fraps.....	33 34
	1079	Salary .....	G. S. Fraps.....	33 34
	1106	Freight.....	H. & T. C. Ry.....	33 20
	1107	Expense .....	G. S. Fraps.....	7 04
	1108	Expense .....	G. S. Fraps.....	7 93
	1109	Expense .....	W. C. Boyett.....	2 00
	1253	Janitor.....	J. Turik.....	10 00
Dec. 11, 1905	1254	Expense .....	A. A. Haskell.....	15 50
22, 1905	1423	Expense .....	Brown & Earle.....	1 10
	1424	Expense .....	Bryan Eagle.....	58 05
	1425	Expense .....	T. Haswell.....	4 30
	1426	Expense .....	M. H. James.....	1 10
	1427	Expense .....	Hill Bros. & Co.....	50
	1428	Expense .....	Bryan Eagle.....	21 65
	1429	Expense .....	Bryan Eagle.....	26 60
	1430	Expense .....	Baush & Lomb.....	395 20
	1431	Expense .....	H. Hill Cem. Co.....	25
	1576	Salary .....	S. E. Asbury.....	91 66
	1577	Salary .....	G. S. Fraps.....	33 34
Jan. 8, 1906	1601	Labor.....	J. O. Green.....	17 70
	1711	Expense .....	Chatham Mfg. Co.....	5 00
	1846	Expense .....	Bering Cortes Hdw. Co.....	24 75



## Chemical Analysis Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 20, 1906	1981	Expense.....	Bryan Eagle.....	\$ 71 75
	1982	Expense.....	Bryan Eagle.....	85 55
	2030	Expense.....	H. & T. C. Ry.....	6 60
	2031	Expense.....	John Turik.....	15 00
	2032	Expense.....	A. Dobyroolny.....	2 00
30, 1906	2221	Salary.....	S. E. Asbury.....	91 66
	2222	Salary.....	G. S. Fraps.....	33 34
	2262	Expense.....	Bryan Eagle.....	99 00
Feb. 1, 1906	2334	Expense.....	H. & T. C. Ry.....	2 30
5, 1906	2409	Expense.....	Bryan Eagle.....	12 15
	2410	Expense.....	Bryan Eagle.....	42 56
15, 1906	2514	Expense.....	J. Turik.....	15 00
	2515	Expense.....	G. S. Fraps.....	8 13
	2596	Expense.....	Houston Gas Co.....	11 00
	2597	Expense.....	H. Hell Chem. Co.....	8 70
	2898	Expense.....	Bausch & Lomb.....	8 40
	2599	Expense.....	Cole Hdw. Co.....	20
	2600	Expense.....	Bryan Eagle.....	92 70
	2601	Expense.....	Bryan Eagle.....	13 20
	2602	Expense.....	Bryan Eagle.....	27 77
	2603	Supplies.....	Wards Anatomical Lab.....	175 00
28, 1906	2805	Salary.....	S. E. Asbury.....	90 66
	2806	Salary.....	G. S. Fraps.....	33 34
Mar. 10, 1906	2859	Expense.....	Bryan Eagle.....	32 85
	2860	Expense.....	Bryan Eagle.....	28 52
	2908	Expense.....	Wells Fargo Express.....	2 75
	2909	Expense.....	Pacific Express.....	50
	2910	Expense.....	G. S. Fraps.....	60
	2911	Labor.....	J. Turik.....	15 00
	2999	Expense.....	Bausch & Lomb.....	18 25
	3000	Expense.....	J. Wiley & Sons.....	60
	3001	Expense.....	M. H. James.....	40
	3002	Expense.....	Bryan Eagle.....	1 90
Mar. 17, 1906	3112	Expense.....	Pacific Express Co.....	1 75
	3113	Expense.....	R. J. Potts.....	6 00
Mar. 30, 1906	3171	Expense.....	Bryan Eagle.....	40 35
	3308	Salary.....	S. E. Asbury.....	91 66
	3309	Salary.....	G. S. Fraps.....	33 34
	3366	Expense.....	S. E. Asbury.....	98 95
	3367	Expense.....	G. S. Fraps.....	1 95
Apr. 10, 1906	3418	Tags.....	Bryan Eagle.....	14 53
	3419	Expense.....	M. H. James.....	25
	3420	Expense.....	Bryan Eagle.....	15 24
	3421	Expense.....	Swift & Co.....	1 30
	3422	Expense.....	Bryan Eagle.....	21 30
Apr. 17, 1906	3559	Repairs.....	C. Robb.....	9 10
	3560	Janitor.....	J. Turik.....	15 00
	3561	Expense.....	City National Bank.....	20 00
Apr. 23, 1906	3627	Expense.....	Chemical engineer.....	3 00
	3628	Expense.....	Bryan Eagle.....	15 35
Apr. 30, 1906	3835	Salary.....	S. E. Asbury.....	91 66
	3836	Salary.....	G. S. Fraps.....	33 34
May 10, 1906	3915	Expense.....	Subsistence department.....	97
	3916	Expense.....	John Hoplins Press.....	2 50
	3917	Expense.....	Bryan Eagle.....	3 50
	3918	Expense.....	H. Hell Chemical Co.....	1 98
	3919	Expense.....	Mallinckrodt Chemical Co.....	9 44
	4019	Janitor.....	John Turik.....	15 00
	4020	Express.....	Pacific Express Co.....	1 35
May 16, 1906	4122	Expense.....	Bryan Telephone Co.....	12 00
	4123	Expense.....	Elmer & Amend.....	35 52
May 21, 1906	4162	Expense.....	Bryan Eagle.....	2 87
	4163	Expense.....	Grasselli Chemical Co.....	10 36
	4223	Expense.....	Bryan Eagle.....	3 90
	4224	Expense.....	American Chemical Society.....	1 80
May 30, 1906	4364	Salary.....	S. E. Asbury.....	91 66
	4365	Salary.....	G. S. Fraps.....	33 34
	4397	Expense.....	Bryan Eagle.....	1 75
	4460	Labor.....	Jno. Turik.....	15 00
June 26, 1906	4601	Expense.....	Bryan Eagle.....	2 60
	4602	Expense.....	G. H. & Webb.....	1 85
	4603	Expense.....	G. H. & Webb.....	8 07
	4604	Expense.....	Plumbing account.....	12 25
June 30, 1906	4669	Salary.....	S. E. Asbury.....	91 66
	4670	Salary.....	G. S. Fraps.....	33 34
	4671	Cleaning well.....	T. W. Foster.....	25 00
July 7, 1906	4788	Labor.....	J. Turik.....	15 00

## Chemical Analysis Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
July 7, 1906	4789	Veterinary.....	Sontag et al.....	\$ 10 70
July 19, 1906	4971	Expense.....	Bryan Eagle.....	4 35
July 30, 1906	5044	Expense.....	S. E. Asbury.....	91 66
	5045	Expense.....	G. S. Fraps.....	33 34
Aug. 4, 1906	5134	Expense.....	G. S. Fraps.....	9 00
	5194	Tags.....	Bryan Eagle.....	1 75
Aug. 20, 1906	5224	Labor.....	J. Turik.....	15 00
	5225	Freight.....	I. & G. N. Ry. Co.....	1 43
	5252	Expense.....	Bryan Eagle.....	4 42
	5253	Expense.....	Cole Hardware Co.....	16 26
	5254	Expense.....	Bering Cortes Hardware Co.....	8 55
Aug. 24, 1906	5286	Expense.....	C. E. Scoles Co.....	7 20
Aug. 30, 1906	5306	Salary.....	S. E. Asbury.....	91 66
	5307	Salary.....	G. S. Fraps.....	33 34
	5339	Expense.....	W. C. Boyett.....	5 00
	5357	Labor.....	J. Turik.....	15 00
Total.....				\$ 9,422 41

Receipts ..... \$ 11,434 91

Balance..... \$ 2,012 50

\$ 11,434 91      \$ 11,434 91

## Feed Analysis Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 18, 1906	1651	Express.....	Wells Fargo Express.....	\$ 1 80
	1652	Freight.....	I. & G. N. Ry.....	1 37
	1653	Freight.....	H. & T. C. Ry.....	3 99
	1654	Postage.....	W. C. Boyett.....	5 00
	1655	Express.....	Wells Fargo Express.....	1 80
	1656	Freight.....	H. & T. C. Ry.....	3 99
	1657	Freight.....	I. & G. N. Ry.....	1 37
	1658	Postage.....	W. C. Boyett.....	5 00
	1659	Salary.....	L. McLennan.....	80 00
	1700	Salary.....	J. C. Cruse.....	66 66
	1770	Expenses.....	A. and M. College.....	24 06
	1771	Expenses.....	Mallinckrodt Chem. Works.....	17 85
	1772	Expenses.....	Eimer & Amend.....	135 77
	1773	Expenses.....	Eimer & Amend.....	9 60
	1774	Expenses.....	Eimer & Amend.....	77 55
	1775	Expenses.....	Chemical Rubber Co.....	19 00
	1776	Expenses.....	Mallinckrodt Chem. Co.....	42 60
	1777	Expenses.....	G. S. Parker.....	8 80
Jan. 20, 1906	1969	Expenses.....	Clarke & Courts.....	3 25
	1970	Expenses.....	Clarke & Courts.....	27 40
	1971	Expenses.....	H. Heil Chem. Co.....	8 80
	1972	Supplies.....	C. E. Scholes.....	6 00
	1973	Expenses.....	Wagner & Brandon.....	90
	1974	Expenses.....	Eimer & Amend.....	91 81
	1975	Expenses.....	Howell Bros.....	1 10
	1976	Expenses.....	Houston Drug Co.....	12 26
	1977	Expenses.....	Keating Implement and Mach. Co.....	6 00
	1978	Expenses.....	G. S. Parker.....	4 45
	1979	Expenses.....	G. S. Parker.....	31 90
	1980	Expenses.....	J. A. Myers.....	8 08
	2077	Labor.....	John Turik.....	15 00
	2078	Labor.....	J. C. Carlisle et al.....	31 90
	2079	Expense.....	Wells Fargo Express.....	55
	2080	Expense.....	H. & T. C. Ry.....	5 37
	2081	Expense.....	Pacific Express.....	3 60
	2082	Expense.....	I. & G. N. Ry.....	5 30
	2083	Labor.....	J. O. Green.....	51 85

## Feed Analysis Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Jan. 30, 1906	2250	Salary .....	L. McLennan.....	\$ 80 00
	2251	Salary .....	J. T. Cruse .....	66 66
Feb. 15, 1906	2525	Expense .....	I. & G. N. Ry.....	2 63
	2526	Expense .....	Pacific Express.....	1 15
	2527	Labor .....	J. B. Carlyle et al.....	43 35
	2528	Labor .....	John Turik.....	15 00
28, 1906	2786	Expense .....	L. McLennan.....	80 00
	2787	Expense .....	J. T. Cruse .....	66 66
Mar. 10, 1906	2831	Supplies .....	G. S. Parker.....	15 25
	2832	Supplies .....	Eimer & Amend.....	57 00
	2833	Supplies .....	Waters Pierce Oil Co.....	29 68
	2834	Supplies .....	Jas. Bute .....	3 00
	2835	Supplies .....	Eimer & Amend.....	45 93
	2836	Supplies .....	Eimer & Amend.....	1 48
	2837	Supplies .....	Mallinckrodt Chem. Co.....	42 60
	2838	Supplies .....	J. A. Myers.....	26 35
	2839	Supplies .....	Bering Mfg. Co.....	17 25
	2840	Supplies .....	Clarke & Courts.....	9 90
	2841	Supplies .....	H. Heil Chem. Co.....	3 90
	2842	Supplies .....	Waters Pierce Oil Co.....	15 40
	2920	Expense .....	H. & T. C. Ry.....	5 49
	2925	Expense .....	W. C. Boyett.....	5 00
	2926	Expense .....	John Turik.....	15 00
	2927	Expense .....	Bryan Eagle.....	7 50
	2928	Expense .....	J. B. Carlyle.....	9 00
	3004	Expense .....	Waters Pierce Oil Co.....	15 40
	3005	Expense .....	H. Heil Chem. Co.....	88 91
17, 1906	3119	Expense .....	I. & G. N. Ry.....	1 18
	3120	Expense .....	H. & T. C. Ry.....	1 12
	3121	Expense .....	I. & G. N. Ry.....	1 39
	3122	Expense .....	P. H. Scott et al.....	19 80
30, 1906	3173	Supplies .....	G. E. Stechert & Co.....	2 87
	3174	Supplies .....	Waters Pierce Oil Co.....	14 00
	3175	Supplies .....	C. E. Sholes Co.....	6 00
30, 1906	3176	Supplies .....	Houston Drug Co.....	19 20
	3177	Supplies .....	Mallinckrodt Chem. Co.....	42 60
	3178	Supplies .....	John Hopkins Press.....	10 00
	3110	Salary .....	L. McLennan.....	80 00
	3111	Salary .....	J. T. Cruse.....	66 66
	32.1	Supplies .....	H. H. Shufeldt.....	23 25
Apr. 10, 1906	3361	Expense .....	I. & G. N. Ry.....	4 37
	3424	Supplies .....	J. Wannamaker.....	3 11
	3425	Supplies .....	W. P. Oil Co.....	15 37
	3426	Supplies .....	Eimer & Amend.....	115 00
	3427	Supplies .....	H. Heil Chem. Co.....	4 00
17, 1906	3562	Expense .....	H. & T. C. Ry.....	3 80
	3564	Expense .....	H. & T. C. Ry.....	16 27
	3565	Postage .....	W. C. Boyett.....	5 00
	3566	Janitor.....	John Turik.....	15 00
	3567	Labor.....	J. O. Green.....	11 00
23, 1906	3618	Expense .....	Wagner & Brandon.....	2 00
30, 1906	3853	Salary .....	L. McLennan.....	80 00
	3854	Salary .....	J. T. Cruse.....	66 66
May 10, 1906	3920	Supplies .....	J. A. Myers.....	27 43
	3921	Supplies .....	W. P. Oil Co.....	31 03
	3922	Supplies .....	Carke & Courts.....	7 35
	3923	Supplies .....	Eimer & Amend.....	42 75
	3924	Supplies .....	Eimer & Amend.....	163 38
	3997	Janitor.....	J. Turik.....	15 00
	3998	Labor .....	E. Carlyle et al.....	19 75
	3999	Labor .....	P. H. Scott et al.....	12 75
21, 1906	4151	Expense .....	Pilot .....	2 50
	4152	Expense .....	B. Blakistons Son & Co.....	19 57
	4153	Expense .....	J. A. Myers.....	16 90
	4154	Expense .....	W. P. Oil Co.....	15 95
	4155	Expense .....	Chem. Rubber Co.....	17 00
	4156	Expense .....	L. Lechner.....	3 00
	4200	Expense .....	Wells Fargo Express.....	4 05
	4201	Expense .....	A. W. Morgan.....	1 20
	4202	Expense .....	W. C. Boyett.....	5 00
	4203	Expense .....	H. & T. C. Ry.....	4 33
	4204	Expense .....	I. & G. N. Ry.....	10 40
30, 1906	4242	Supplies .....	Eimer & Amend.....	57 55
	4243	Supplies .....	Eimer & Amend.....	114 31
	4244	Supplies .....	J. Wiley & Son.....	85
	4245	Supplies .....	Central Scientific Co.....	12
	4246	Supplies .....	W. P. Oil Co.....	16 50



## Feed Analysis Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
May 30, 1906	4352	Salary.....	L. McLennan.....	\$ 80 00
	4353	Salary.....	J. T. Cruse.....	66 67
June 7, 1906	4443	Expense.....	Bryan Eagle.....	5 90
	4454	Labor.....	W. L. Atkins.....	5 00
	4455	Expense.....	H. & T. C. Ry.....	2 48
	4456	Express.....	Wells Fargo Express.....	45
	4457	Labor.....	J. Turik.....	15 00
26, 1906	4533	Expense.....	Dansby & Dansby ..	98
	4534	Supplies.....	J. Bishop & Co.....	172 96
	4535	Supplies.....	Keuffel & Esser Co ..	27 00
	4536	Supplies.....	J. A. Myers.....	6 59
	4537	Supplies.....	Bering Cortes Hdw. Co.....	7 30
	4538	Supplies.....	J. Bishop & Co.....	187 41
	4539	Supplies.....	Cole Hdw. Co.....	1 65
	4540	Supplies.....	H. Hell Chem. Co.....	10 61
	4541	Supplies.....	Elmer & Amend.....	12 00
	4542	Labor.....	F. T. Foley ..	1 50
	4543	Supplies.....	Clarke & Courts.....	5 60
	4544	Supplies.....	Schaffer Photo Supply Co.....	1 89
	4545	Supplies.....	W. P. Oil Co.....	15 90
June 30, 1906	4667	Salary.....	L. McLennan.....	80 00
	4668	Salary.....	J. T. Cruse.....	66 66
	4693	Freight.....	H. & T. C. Ry.....	1 98
	4694	Express.....	Wells Fargo Express.....	1 60
July 7 1906	4794	Labor.....	J. Turik.....	15 00
19, 1906	4916	Labor.....	P. H. Scott.....	1 25
	4917	Freight.....	H. & T. C. Ry.....	8 11
	4918	Express.....	Wells Fargo Express ..	3 10
	4919	Labor.....	J. Ashton et al.....	20 20
July 30, 1906	5016	Salary.....	L. McLennan.....	35 00
	5017	Salary.....	J. T. Cruse.....	66 67
Aug. 4, 1906	5126	Supplies.....	John Wannamaker.....	1 62
	5127	Supplies.....	J. B. Lippincott Co.....	4 00
	5128	Supplies.....	C. E. Sholes Co.....	7 20
	5129	Supplies.....	Waters-Pierce Oil Co ..	15 90
	5130	Supplies.....	Bausch & Lomb.....	90 00
	5131	Expense.....	G. S. Fraps.....	1 55
	5132	Postage.....	W. C. Boyett.....	5 00
	5133	Labor.....	J. B. Rather.....	15 00
20, 1906	5243	Labor.....	J. Turik.....	15 00
	5244	Expense.....	G. S. Fraps.....	21 68
	5245	Expense.....	G. S. Fraps.....	12 55
30, 1906	5349	Salary.....	J. T. Cruse.....	66 67
	5362	Labor.....	J. B. Rather.....	30 00
31, 1907	5392	Labor.....	W. J. Andrews ..	8 75
	5393	Labor.....	J. Turik.....	15 00
	5423	Labor.....	J. B. Rather.....	3 80
	5424	Labor.....	J. B. Rather.....	30
Total.....				\$ 4,076 72
Receipts.....				\$ 5,360 40
Balance.....				1,283 68
				\$ 5,360 40
				\$ 5,360 40

## Feed Control Account.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
July 19, 1905	1	Expense .....	W. C. Boyett .....	\$ 5 00
26, 1905	2	Expense .....	W. C. Boyett .....	10 00
31, 1905	3	Freight.....	H. & T. C. Ry. ....	3 15
	4	Labor.....	L. L. Ballard et al. ....	96 62
	5	Travel.....	C. O. Moser.....	7 60
	6	Express.....	Pacific Express Co.....	35
	7	Message.....	Western Union Telegraph Co.....	30
	8	Expense.....	J. Allen Myers.....	5 05
	9	Expense.....	H. G. Umland.....	2 09
	10	Freight.....	H. & T. C. Ry. ....	8 11
	11	Travel.....	B. C. Pittuck.....	26 15
	12	Analyses.....	G. S. Fraps.....	66 00
	13	Messages.....	S. W. Telegraph and Telephone Co..	4 90
	14	Express.....	Wells-Fargo & Co.....	10 55
	15	Express.....	H. G. Umland.....	8 05
	16	Express.....	Wells-Fargo & Co.....	60
Aug. 1, 1905	17	Express.....	H. G. Umland .....	30
	18	Labor.....	R. L. Spiller.....	24 25
	19	Express.....	H. G. Umland.....	1 40
	20	Express.....	L. C. Ketcham.....	85
	21	Salary.....	B. C. Pittuck.....	183 33
	22	Salary.....	C. O. Moser.....	100 00
	23	Salary.....	C. W. Crisler.....	75 00
3, 1905	24	Message s.....	S. W. Telegraph and Telephone Co.	6 10
4, 1905	25	Stamps.....	W. C. Boyett.....	20 00
	26	Freight.....	H. & T. C. Ry. ....	1 68
14, 1905	27	Freight.....	L. C. Ketcham, agent .....	45 71
16, 1905	28	Expense.....	H. G. Umland.....	50
	29	Expense.....	H. G. Umland .....	4 95
Aug. 19, 1905	30	Analysis.....	O. D. Hargis.....	3 00
Sept. 1, 1905	31	Salary.....	H. C. Pittuck.....	183 33
	32	Salary.....	C. O. Moser.....	100 00
	33	Salary.....	C. W. Crisler.....	75 00
	34	Salary.....	L. L. Ballard.....	60 00
	35	Labor.....	R. L. Spiller et al.....	103 00
	36	Salary.....	M. S. Church.....	20 00
12, 1905	37	Salary.....	L. L. Ballard.....	24 00
15, 1905	38	Stamps.....	W. C. Boyett.....	10 00
25, 1905	39	Messages.....	Ed Sims, manager S. W. T. Co.....	5 75
	40	Analysis.....	G. S. Fraps.....	9 00
	41	Analysis.....	L. McLennan.....	3 00
27, 1905	42	Analysis.....	O. D. Hargis.....	36 00
Oct. 17, 1905	43	Salary.....	B. C. Pittuck.....	183 33
	44	Salary.....	C. O. Moser.....	100 00
	45	Salary.....	M. S. Church.....	100 00
	46	Salary.....	C. W. Crisler.....	75 00
	47	Salary.....	L. McLennan.....	66 66
	48	Travel.....	C. O. Moser.....	110 55
	49	Travel.....	B. C. Pittuck.....	75 65
	50	Travel.....	B. C. Pittuck.....	36 35
	51	Expense.....	B. C. Pittuck.....	1 30
	52	Travel.....	John A. Craig.....	8 50
	53	Travel.....	M. S. Church.....	17 75
	54	Expense.....	B. C. Pittuck.....	4 16
	55	Expense.....	Ed Sims.....	7 85
	56	Labor.....	R. L. Spiller et al.....	61 80
	57	Stamped envelopes.....	W. C. Boyett.....	107 20
	58	Travel.....	C. O. Moser.....	114 90
	59	Travel.....	M. S. Church.....	126 15
Nov. 1, 1905	755	Salary.....	B. C. Pittuck.....	183 32
	756	Salary.....	C. O. Moser.....	100 00
	757	Salary.....	M. S. Church.....	100 00
	758	Salary.....	C. W. Crisler.....	75 00
	759	Salary.....	L. McLennan.....	80 00
	760	Expense.....	B. C. Pittuck.....	57 70
	761	Expense.....	L. A. Spiller et al.....	59 85
	762	Expense.....	H. G. Umland.....	11 55
	763	Expense.....	Amarillo Coal and Grain Co.....	9 00
	809	Expense.....	I. & G. N. Ry. Co.....	100 35
30, 1905	1228	Salary.....	B. C. Pittuck.....	183 33
	1229	Salary.....	C. O. Moser.....	100 00
	1230	Salary.....	M. S. Church.....	100 00
	1231	Salary.....	C. W. Crisler.....	75 00
	1232	Salary.....	L. McLennan.....	13 34
	1233	Salary.....	L. McLennan.....	80 00
	1235	Expense.....	C. O. Moser.....	129 65
Dec. 11, 1905	1276	Analysis.....	Chemical analysis.....	407 00

## Feed Control Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Dec. 11, 1905	1277	Expense.....	H. & T. C. Ry Co.....	\$ 2 20
	1278	Expense.....	I. & G. N. Ry. Co.....	100 35
	1279	Expense.....	Pacific Express Co.....	1 40
	1280	Expense.....	H. & T. C. Ry. Co.....	56 86
	1281	Expense.....	H. G. Umland.....	4 25
22, 1905	1433	Traveling expenses.....	C. O. Moser.....	164 75
	1434	Traveling expenses.....	M. S. Church.....	27 60
	1435	Expense.....	Southwestern T. & T. Co.....	17 75
Jan. 8, 1906	1687	Analysis.....	Feed analysis account.....	249 00
	1688	Expense.....	C. W. Crisler.....	8 70
	1690	Salary.....	B. C. Pittuck.....	183 33
	1691	Salary.....	C. O. Moser.....	100 00
	1692	Salary.....	M. S. Church.....	100 00
	1693	Salary.....	C. W. Crisler.....	75 00
	1694	Labor.....	M. H. Watkins.....	5 00
	1695	Traveling expenses.....	C. O. Moser.....	94 10
	1696	Expense.....	Southwestern T. & T. Co.....	2 30
	1697	Labor.....	L. A. Spiller et al.....	75 10
	1813	Traveling expenses.....	B. C. Pittuck.....	19 00
	1814	Traveling expenses.....	M. S. Church.....	89 60
	1815	Wrapping paper.....	J. A. Myers.....	21 43
	1816	Tags.....	Clarke & Courts.....	68 00
	1817	Tags.....	J. J. Pastoriza.....	31 00
	1818	Blanks.....	State Printing Co.....	11 17
	1819	Blanks.....	T. Haswell.....	90
	1820	Blanks.....	Austin Book and Stationery Co.....	66 98
Jan. 20, 1906	1821	Expense.....	Southwestern T. & T. Co.....	4 60
	2011	Tags.....	Clarke & Courts.....	460 46
	2012	Tags.....	Clarke & Courts.....	267 66
	2013	Tags.....	J. J. Pastoriza.....	21 40
	2014	Tags.....	J. J. Pastoriza.....	213 80
	2015	Expense.....	State Printing Co.....	10 75
	2016	Tags.....	State Printing Co.....	390 30
	2017	Tags.....	State Printing Co.....	46 75
	2018	Tags.....	Dorsey Printing Co.....	94 20
	2019	Tags.....	Bryan Eagle.....	5 25
	2020	Office furniture.....	Stowers Furniture Co.....	79 00
	2021	Office furniture.....	Cargill Co.....	85 55
	2022	Office furniture.....	T. Haswell.....	1 65
	2038	Expense.....	C. W. Crisler.....	74
	2039	Expense.....	W. C. Boyett.....	15 00
	2040	Expense.....	H. G. Umland.....	3 50
Jan. 30, 1906	2041	Feed analysis.....	Feed analysis account.....	276 00
	2238	Salary.....	B. C. Pittuck.....	183 33
	2239	Salary.....	C. O. Moser.....	100 00
	2240	Salary.....	M. S. Church.....	100 00
	2241	Salary.....	C. W. Crisler.....	75 00
	2242	Salary.....	J. C. Burns.....	100 00
	2243	Wrapping paper.....	Austin Book and Stationery Co.....	34 36
	2244	Expense.....	Farm department.....	5 00
	2245	Circular letters.....	Bryan Eagle.....	10 45
	2246	Labor.....	F. Foley.....	5 00
	2247	Traveling expenses.....	M. S. Church.....	11 10
	2248	Analysis.....	Feed analysis account.....	216 00
	2249	Copy work.....	S. E. Andrews.....	1 00
Jan. 30, 1906	2279	Supplies.....	Remington Typewriter Co.....	147 00
	2280	Supplies.....	J. J. Pastoriza.....	9 25
	2281	Expense.....	Farm department.....	3 00
	2282	Expense.....	State Printing Co.....	1 04
Feb. 2, 1906	2359	Labor.....	L. A. Spiller et al.....	99 60
5, 1906	2406	Expense.....	Southwestern T. and T. Co.....	5 30
	2407	Expense.....	J. A. Myers.....	12 05
	2408	Expense.....	Pacific Express.....	45
	2462	Traveling expenses.....	M. S. Church.....	103 00
10, 1906	2502	Expense.....	H. & T. C. Ry.....	104 40
	2504	Labor.....	L. A. Spiller et al.....	37 50
15, 1906	2583	Traveling expenses.....	C. O. Moser.....	115 70
	2584	Expense.....	H. G. Umland.....	2 35
	2585	Traveling expenses.....	J. C. Burns.....	26 00
	2586	Expense.....	J. A. Myers.....	3 00
20, 1906	2664	Analysis.....	Feed analysis.....	252 00
	2665	Expense.....	W. C. Boyett.....	21 20
28, 1906	2788	Salary.....	B. C. Pittuck.....	183 33
	2789	Salary.....	C. O. Moser.....	100 00
	2790	Salary.....	M. S. Church.....	100 00
	2791	Salary.....	C. W. Crisler.....	75 00
	2792	Salary.....	J. C. Burns.....	100 00



## Feed Control Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
Mar. 10, 1906	2850	Tags.....	Austin Book and Stationery Co.....	\$ 607 08
	2851	Traveling expenses.....	C. O. Moser.....	129 00
	2852	Blank books.....	Morgan Printing Co.....	11 01
	2853	Expense.....	Southwestern T. and T. Co.....	11 35
	2900	Traveling expenses.....	B. C. Pittuck.....	38 90
	2901	Expense.....	Feed analysis.....	216 00
	2902	Expense.....	Pacific Express.....	70
	2903	Labor.....	L. A. Spiller et al.....	52 25
	3006	Traveling expenses.....	M. S. Church.....	38 55
Mar. 15, 1906	3007	Traveling expenses.....	J. C. Burns.....	113 50
	3041	Tags.....	State Printing Board.....	755 00
	3042	Expense.....	Farm department.....	3 50
	3079	Printing.....	State Printing Board.....	501 35
	3080	Expense.....	State Printing Co.....	303 65
	3081	Expense.....	H. G. Umland.....	2 52
	3082	Expense.....	H. & T. C. Ky.....	1 42
	3083	Exchange.....	First National Bank of Bryan.....	10 00
30, 1906	3169	Expense.....	Austin Book and Stationery Co.....	8 17
	3170	Expense.....	Austin Book and Stationery Co.....	400 00
	3301	Salary.....	B. C. Pittuck.....	183 33
	3302	Salary.....	M. S. Church.....	100 00
	3303	Salary.....	C. O. Moser.....	100 00
	3304	Salary.....	C. W. Crisler.....	75 00
	3305	Salary.....	J. C. Burns.....	100 00
Apr. 10, 1906	3376	Analysis.....	Feed analysis Chem. Dept.....	360 00
	3390	Traveling expenses.....	C. O. Moser.....	113 90
	3391	Traveling expenses.....	M. S. Church.....	116 60
	3392	Traveling expenses.....	B. C. Pittuck.....	31 85
	3451	Salary.....	M. S. Church.....	20 00
	3452	Postage.....	W. C. Boyett.....	10 00
	3453	Expense.....	Southwestern T. and T. Co.....	5 75
	3454	Analysis.....	G. S. Fraps.....	9 00
	3455	Salary.....	B. C. Pittuck.....	183 33
	3456	Salary.....	C. O. Moser.....	100 00
	3457	Salary.....	M. S. Church.....	100 00
	3458	Salary.....	C. W. Crisler.....	75 00
	3459	Salary.....	L. McLennan.....	66 66
	3460	Traveling expenses.....	C. O. Moser.....	110 55
	3461	Traveling expenses.....	B. C. Pittuck.....	75 65
	3462	Traveling expenses.....	B. C. Pittuck.....	36 35
	3463	Expense.....	B. C. Pittuck.....	1 30
	3464	Traveling expenses.....	J. A. Craig.....	8 50
	3465	Traveling expenses.....	M. S. Church.....	17 75
	3466	Expense.....	B. C. Pittuck.....	4 16
	3467	Messages.....	Southwestern T. and T. Co.....	7 85
	3468	Labor.....	R. L. Spiller et al.....	61 80
Apr. 0, 1906	3469	Postage.....	J. C. Boyett.....	107 20
	2470	Travelling expenses.....	C. O. Moser.....	114 90
	2471	Travelling expenses.....	M. S. Church.....	126 15
17, 1906	3510	Analysis.....	Feed Analysis Acct.....	540 00
	3511	Labor.....	R. A. Spiller.....	61 05
	3512	Labor.....	S. Sontag.....	1 50
	3513	Expense.....	H. G. Umland.....	6 14
	3514	Postage.....	W. C. Boyett.....	106 60
23, 1906	3613	Expense.....	S. W. T. & T. Co.....	6 25
	3614	Travelling expenses.....	J. C. Burns.....	119 05
25, 1906	3719	Pags.....	State Printing Co.....	830 00
30, 1906	3848	Salary.....	B. C. Pittuck.....	183 33
	3849	Salary.....	M. S. Church.....	100 00
	3850	Salary.....	C. O. Moser.....	100 00
	3851	Salary.....	C. W. Crisler.....	75 00
	3852	Salary.....	J. C. Burns.....	100 00
May 4, 1906	3858	Travelling expenses.....	M. S. Church.....	84 55
	3859	Travelling expenses.....	J. C. Burns.....	108 70
	3860	Expense.....	S. W. T. & T. Co.....	17 00
	3861	Analysis.....	Feed Analysis.....	576 00
	3862	Travelling expenses.....	B. C. Pittuck.....	14 50
	3863	Travelling expenses.....	C. O. Moser.....	51 80
	3864	Expense.....	J. A. Myers.....	75
	3865	Expense.....	J. A. Aster.....	9 30
10, 1906	3955	Expense.....	Tobins Book Store.....	15 10
	4005	Expense.....	C. A. Carson.....	1 25
	4007	Expense.....	W. A. Carson.....	29 55
	4008	Expense.....	Wells Fargo Express.....	3 30
	4009	Analysis.....	Chem. Department.....	588 00
21, 1906	4157	Expense.....	Tobins Book Store.....	12 75
	4192	Analysis.....	Feed Analysis.....	324 00

## Feed Control Account—continued.

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
May 21, 1906	4193	Analysis.....	Feed Analysis.....	\$ 324 00
	4220	Expense.....	Pacific Express.....	2 20
	4221	Expense.....	Stevenson Machine Co.....	15 00
	4222	Expense.....	Dorsey Printing Co.....	38 80
30, 1906	4366	Salary.....	B. C. Pittuck.....	183 33
	4367	Salary.....	C. O. Moser.....	100 00
	4368	Salary.....	M. S. Church.....	100 00
	4369	Salary.....	C. W. Crisler.....	75 00
	5370	Salary.....	J. C. Burns.....	100 00
Jun 4, 1906	4374	Chemical.....	Feed Analysis.....	279 00
7, 1906	4404	Travelling expenses.....	B. C. Pittuck.....	44 20
	4404	Receipts.....	State Printing Co.....	81
	4406	Expense.....	S. W. T. & T. Co.....	8 60
	4407	Expense.....	S. F. McConico.....	19 26
	4461	Expense.....	Wells Fargo Express.....	9 25
	4462	Expense.....	W. U. Tel. Co.....	1 09
11, 1906	4500	Travelling expenses.....	J. C. Burns.....	169 45
26, 1906	1550	Travelling expenses.....	C. O. Moser.....	123 35
	4551	Travelling expenses.....	M. S. Church.....	125 90
30, 1906	4662	Salary.....	B. C. Pittuck.....	183 33
	4663	Salary.....	C. O. Moser.....	100 00
	4664	Salary.....	M. S. Church.....	100 00
	4665	Salary.....	C. W. Crisler.....	75 00
	4666	Salary.....	J. C. Burns.....	100 00
	4695	Expense.....	H. S. Woods.....	12 60
	4696	Expense.....	H. S. Woods.....	7 56
	4697	Analysis.....	Feed Analysis.....	756 00
July 7, 1906	4780	Expense.....	J. G. Harrison.....	425 00
	4837	Expense.....	H. G. Umland.....	4 65
	4838	Expense.....	L. C. Ketchum.....	2 80
	4839	Expense.....	H. G. Umland.....	58
	4840	Labor.....	W. A. Carson.....	32 40
	4841	Travelling expenses.....	B. C. Pittuck.....	25 05
	4842	Supplies.....	Tobins Book Store.....	7 42
	4843	Expense.....	S. W. T. & T. Co.....	5 10
19, 1906	4948	Expense.....	H. S. Pierce.....	75
	4949	Travelling expenses.....	M. S. Church.....	114 75
	4950	Travelling expenses.....	J. C. Burns.....	123 80
	4951	Travelling expenses.....	C. O. Moser.....	122 65
	4952	Travelling expenses.....	C. W. Crisler.....	10 90
24, 1906	5004	Travelling expenses.....	B. C. Pittuck.....	80 40
	5005	Stamps.....	W. C. Boyett.....	10 00
July 30, 1906	5010	Salary.....	B. C. Pittuck.....	183 33
	5011	Salary.....	C. O. Moser.....	100 00
	5012	Salary.....	M. S. Church.....	100 00
	5013	Salary.....	C. W. Crisler.....	83 33
	5014	Salary.....	J. C. Burns.....	100 00
	5015	Salary.....	F. Thatcher.....	23 30
Aug. 4, 1906	5058	Traveling expenses.....	B. C. Pittuck.....	16 95
	5059	Expense.....	Wells-Fargo Express Co.....	3 40
	5060	Labor.....	N. A. Carson et al.....	39 35
	5061	Labor.....	N. A. Carson et al.....	33 00
	5062	Traveling expenses.....	C. O. Moser.....	116 30
	5063	Expense.....	State Printing Co.....	831 66
	5164	Traveling expenses.....	M. S. Church.....	106 75
11, 1906	5191	Expense.....	S. W. T. & T. Co.....	7 95
13, 1906	5197	Traveling expenses.....	J. C. Burns.....	131 80
20, 1906	5226	Freight.....	H. & T. C. Ry.....	26 35
	5227	Freight.....	H. & T. C. Ry.....	18 05
	5228	Expense.....	W. U. Tel. Co.....	4 60
	5229	Expense.....	Wells-Fargo Express Co.....	30
	5230	Postage.....	W. C. Boyett.....	10 00
30, 1906	5290	Salary.....	B. W. Carson.....	183 33
	5291	Salary.....	C. O. Moser.....	100 00
	5292	Salary.....	M. S. Church.....	100 00
	5293	Salary.....	C. W. Crisler.....	83 33
	5294	Salary.....	J. C. Burns.....	100 00
	5335	Expense.....	H. & T. C. Ry.....	32 72
	5336	Postage.....	W. C. Boyett.....	64 20
	5337	Expense.....	H. & T. C. Ry.....	21 19
	5338	Expense.....	H. & T. C. Ry.....	9 16
	5348	Salary.....	F. Thatcher.....	50 00
	5356	Labor.....	F. T. Foley.....	17 25
	5359	Labor.....	N. A. Carson.....	34 65
Aug. 31, 1906	5380	Traveling expenses.....	J. C. Burns.....	100 35
	5381	Traveling expenses.....	C. C. Moser.....	20 75
	5425	Expense.....	Wells-Fargo Express Co.....	3 60

**Food Control Account—continued.**

Date.	Voucher No.	For what expended.	To whom paid.	Amount.
	5428	Expense .....	Tobin's Book Store.....	64 56
		Total.....		\$ 26,941 27
Deposited with State Treasurer.....				\$ 20,797 92
Deposited with State Treasurer.....				11,242 80
Deposited with State Treasurer.....				9,079 00
Deposited with State Treasurer.....				14,237 68
				\$ 82,298 67
Receipts.....				\$ 99,886 17
Balance.....				\$ 17,587 50
				\$ 99,886 17
				\$ 99,886 17















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